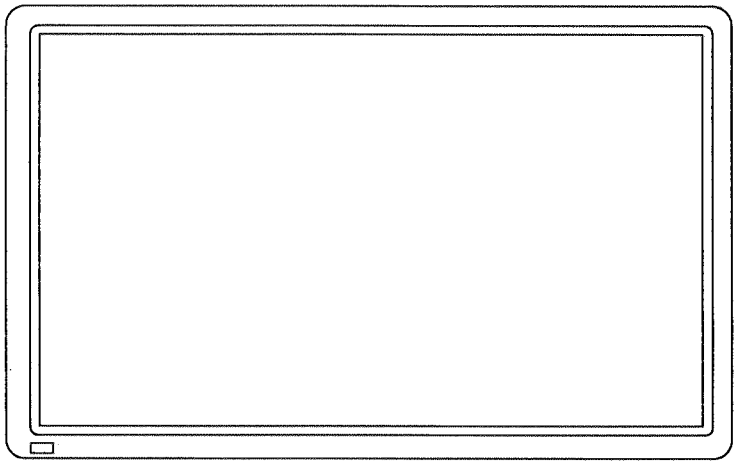
JVC

SERVICE MANUAL

42" PLASMA DISPLAY MONITOR

GD-V425PZW



- Dimension : 103.5 cm (40-3/4") × 64.0 cm (25-1/4") × 15.0 cm (6") (W × H × D)
- Mass : 39.5 kg (86.9 lbs)

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No. 51366
Jan. 1998

SPECIFICATIONS

Item	Content		
Type	Plasma display		
Colour system	PAL / SECAM / NTSC 3.58 / NTSC 4.43 / N-PAL / M-PAL		
Power requirements	100V~240V AC, 50/60Hz		
Power Consumption	350W(TYP) (4W in stand by mode)		
Screen size	106.6cm (42") measured diagonally		
Effective screen dimensions	Horizontal 92cm × Vertical 51.8cm, 105.5cm (Diagonal)		
Number of pixels	Horizontal 852 × Vertical 480		
Pixel pitch	Horizontal 1.08mm × Vertical 1.08mm		
Cell pitch	Horizontal 0.36mm × Vertical 1.08mm		
Dispiay colours	16.7million colours (RGB each 256 hues)		
Contrast ratio	More than 260:1		
Viewing angle	160°		
Audio power output	2W+2W Two internal speakers (5×9cm oval, impedance of 8Ω)		
Input signals / connectors	Composite video	BNC connector	: 1.0Vp-p/75Ω
	S video	S connector	: Y 1.0Vp-p/75Ω
			: C 0.286Vp-p/75Ω (NTSC)
			0.3 Vp-p/75Ω (PAL/SECAM)
	Component video	BNC connector×3	: Y 1.0Vp-p/75Ω
			: P_B/B-Y 0.7Vp-p/75Ω
			: P_R/R-Y 0.7Vp-p/75Ω
	Audio	RCA pin jack×2(L/R)	500mVrms(TYP)/over 22kΩ
	Analogue RGB	D-SUB 3-row 15pin	:See next page
Scanning frequency	Video mode	Horizontal 15.625KHz(PAL/SECAM),15.734KHz(NTSC)	
		Vertical 50Hz(PAL/SECAM),59.94Hz(NTSC)	
	Component video mode	See next page	
	Analogue RGB mode	Horizontal 15.63KHz~60KHz	
		Vertical 50~75Hz	
		Dot Clock 35.7MHz (Max.)	
Environment Operating	Temperature: 0~40°C		
	Relative humidity: 20~80% (non-condensing)		
	Pressure: 800~1114hPa		
Storage	Temperature: -15~60°C		
	Relative humidity: 8~80% (non-condensing)		
	Pressure: 800~1114hPa		
Accessories	Remote control unit ×1		
	AA/R6-size dry cell battery×2 (for operation check)		
	Cable clamper×2		
	Power cord (for AC100~125V)×1,(for AC200~240V)×1, (for AC240V SAA type)×1		
	Bracket (2 types)×2(4 total)		
	Screw (2 types)×2(4 total)		

Design & specification are subject to change without notice.

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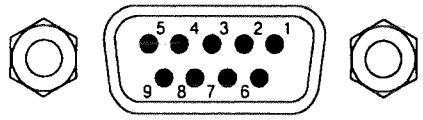
■ RS-232C Connector Pin Layout

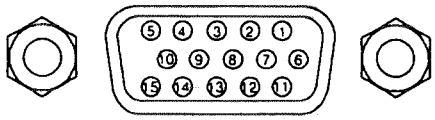
[D-SUB 9-pin (male)]



Pin No.	Signal	Pin No.	Signal
1	DCD (Data Carrier Detect)	6	DSR (Data Set Ready)
2	RD (Receive Data)	7	RTS (Request To Send)
3	TD (Transmit Data)	8	CTS (Clear To Send)
4	DTR (Data Terminal Ready)	9	RI (Ring Indication)
5	GND (Ground)		

■ RGB INPUT Connector Pin Layout

[D-SUB 3-row 15-pin (female)]



Pin No.	Signal	Pin No.	Signal
1	R signal input: 0.7Vp-p, 75Ω	9	N.C. (no connection)
2	G signal input: 0.7Vp-p, 75Ω	10	GND (Ground)
3	B signal input: 0.7Vp-p, 75Ω	11	N.C. (no connection)
4	N.C. (no connection)	12	N.C. (no connection)
5	GND (Ground)	13	$\overline{H_{SYNC}}$: TTL level, 1 kΩ
6	GND (Ground for R signal)	14	$\overline{V_{SYNC}}$: TTL level, 1 kΩ
7	GND (Ground for G signal)	15	N.C. (no connection)
8	GND (Ground for B signal)		

■ Analog RGB input mode

Mode number	Display (dots × lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Supported signal
1	852 × 480	31.72	59.97	Note1 When dedicated wide video card used
2	640 × 480	31.47	59.94	VGA
3	640 × 480	37.86	72.81	VGA 72 Hz
4	640 × 480	37.50	75.00	VGA 75 Hz
5	720 × 400	31.47	70.09	VGA 400 lines
6	640 × 480	34.97	66.61	Mac 13RGB (1)
	640 × 480	35.00	66.67	Mac 13RGB (2)
7	640 × 440	24.83	56.42	PC98 24kHz
8	640 × 400	31.50	70.15	PC98 31kHz
9	800 × 600	35.16	56.25	SVGA 56 Hz Note2
10 11 12 13 14 15 16		15.63 to 60.00	50.00 to 75.00	User settings

Note 1: The dedicated wide video card is separately sold (option).

2: The plasma display converts the 800 × 600-dot signal to the 640 × 480-dot signal and displays the entire screen at the same time. Since the signal is reduced and interpolated, the original resolution of SVGA cannot be retained.

■ Component video mode

Factory set mode	Horizontal frequency (kHz)	Vertical frequency (kHz)	Supported signal
1	15.734	59.94	MODE1 (Standard signals)
2	15.625	50.00	
3	33.750	60.00	MODE2 (Japanese high definition video signal)
4	25.00~50.00	50.00~75.00	MODE 1 / 2 User settings

SAFETY PRECAUTIONS

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT INFORMATION

WARNING: This is Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may be hazardous.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.

- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

  For proper ventilation; separate the product from other equipment, which may prevent ventilation and keep distance more than 10cm.

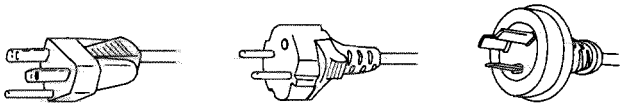
- This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
  a) When the power supply cord or plug is damaged.
  b) If liquid has been spilled, or objects have fallen on the product.
  c) If the product has been exposed to rain or water.
  d) If the product operated normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  e) If the product has been dropped or damaged in any way.
  f) When the product exhibits a distinct change in performance – this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.
- Use only the accessory cord designed for this product to prevent shock.

  The power supply voltage rating of this product is AC100-240 V, the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC.

  When it is used by other power supply voltage,
  power cable must be changed.

  Consult your product dealer.

Power cord



Power supply voltage: AC 100-125V | AC 200-240 V | AC 240 V (SAA TYPE)

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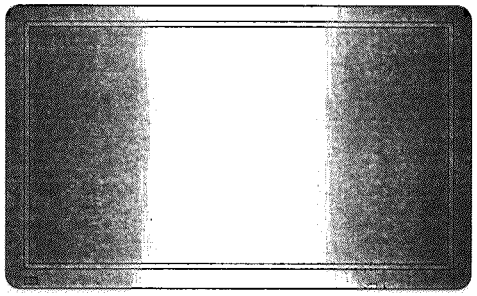
JVC

42" WIDE PLASMA DISPLAY MONITOR

BEDIENUNGSANLEITUNG : 42" BREITWANDFORMAT-PLASMABILDSCHIRM
MANUEL D'INSTRUCTIONS : MONITEUR DE VISUALISATION PLASMA 42"
INSTRUCCIONES : MONITOR DE DESPLIEGUE AMPLIO (WIDE) DE PLASMA DE 42 PULAGADAS

GD-V425PZW INSTRUCTIONS



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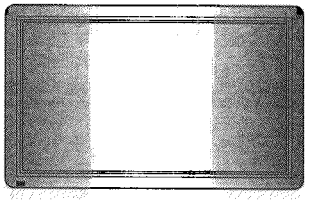
INSTRUCTIONS



GD-V425PZW

42" WIDE PLASMA DISPLAY MONITOR

For Customer Use:

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. : GD-V425PZW

Serial No. :

This manual is divided into four language sections: English, German, French and Spanish.

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Thank you for purchasing this JVC monitor.
Before using the monitor, read this manual carefully so that you know how to use the display correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.
Keep this manual where the user can see it easily.
** Installation and removal require special expertise. Consult your product dealer for details*

INSTRUCTIONS MANUAL

GD-V425PZW

http://www.manualscenter.com

SAFETY PRECAUTIONS

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GD-V425PZW

SAFETY PRECAUTIONS (continued)

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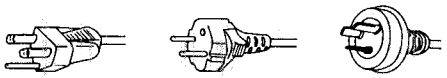
Power cord

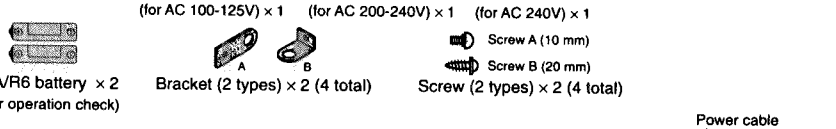


Power supply voltage: AC 100-125V | AC 200-240 V | AC 240 V (SAA TYPE)

PREPARATION

Checking Accessories

Cable clamper × 2 | Power cord (for AC 100-125V) × 1 | Power cord (for AC 200-240V) × 1 | Power cord (for AC 240V) × 1 | Remote controller × 1



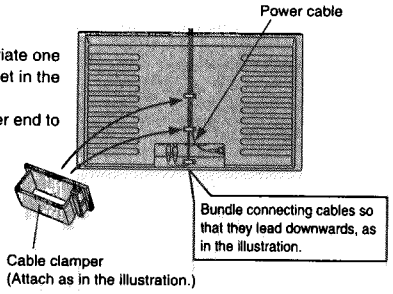
AA/R6 battery × 2 (for operation check) | Bracket (2 types) × 2 (4 total) | Screw A (10 mm), Screw B (20 mm) — Screw (2 types) × 2 (4 total)

Connection of power cord (power cable)

- Three power cords are supplied with this unit. Use the appropriate one depending on the supplied voltage or the shape of the AC outlet in the area where this unit is used.
  Connect one end of the power cord to the AC inlet and the other end to the AC outlet.
  If neither plug fits the outlet, consult your dealer.

Cable clampers

- The accessory cable clampers are for fastening the connected signal cables and a power cable. When installing this monitor on a wall or ceiling, insert the cable clampers into the holes on the rear of the monitor.

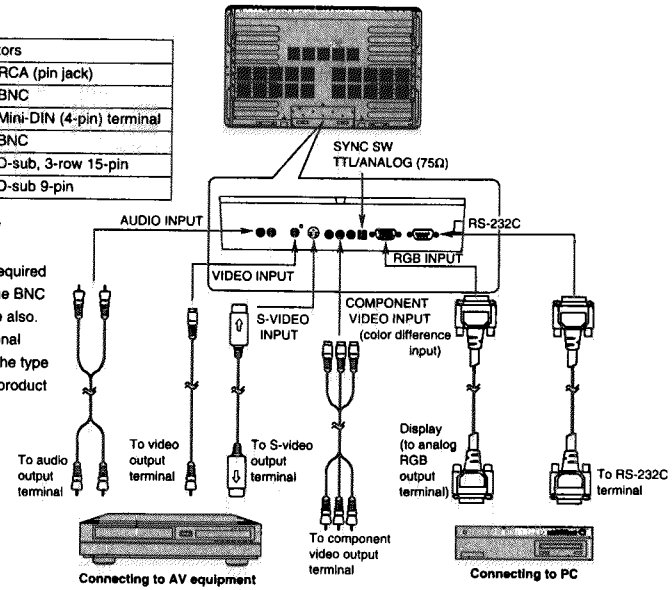

Power cable
Bundle connecting cables so that they lead downwards, as in the illustration.
Cable clamper
(Attach as in the illustration.)

Connecting to External Equipment

Cables for connecting external equipment must be purchased separately.

Connectors	
AUDIO INPUT	RCA (pin jack)
VIDEO INPUT	BNC
S-VIDEO INPUT	Mini-DIN (4-pin) terminal
COMPONENT VIDEO INPUT	BNC
RGB INPUT	D-sub, 3-row 15-pin
RS-232C	D-sub 9-pin

* When connecting separately purchased BNC terminals, conversion connectors are required between the pin jacks and the BNC terminals, so purchase these also.
* Cables connecting the personal computer vary according to the type of machine, so consult your product dealer.

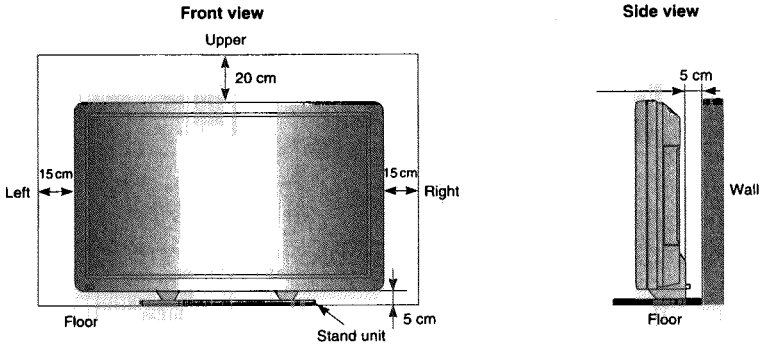


WHAT YOU SHOULD KNOW

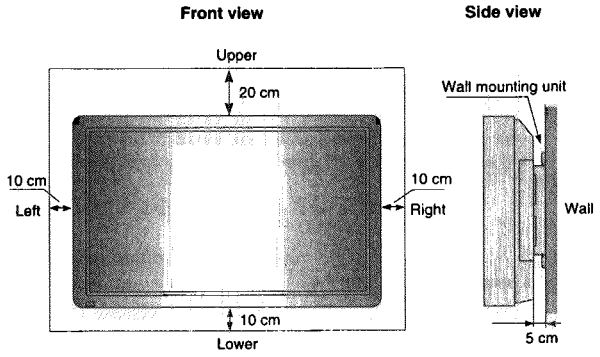
POINTS ABOUT USAGE

- When installing the monitor, use the optional stand unit, wall mounting unit, or ceiling suspension unit. Have the installation done by your product dealer.
- When installing the monitor, refer to the installation manuals for the options. Further, be sure that the monitor does not lean to the side or backward.
- Place the power cord and connection cables in a corner of the wall or floor so that they do not get caught on anything
- For good heat dissipation, this plasma display monitor requires at least the space shown in the figure below.
- The installation location must have an ambient temperature range of 0 °C – 40 °C.
  See page 41 for optional parts.

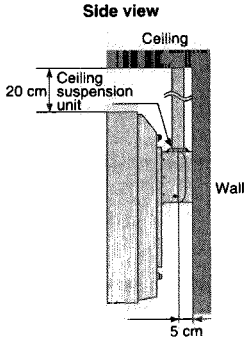
When stand unit used



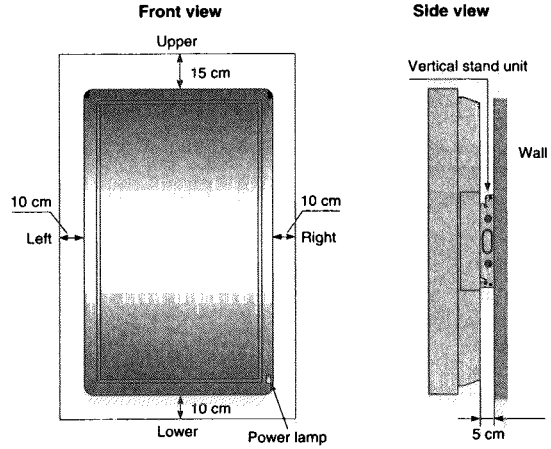
When wall mounting unit used (horizontally)



When ceiling suspension unit used



When vertical stand unit used



- When mounting this plasma display monitor vertically, make sure that the power lamp is at the lower right.

Notes

- *Do not display the same picture (pattern) continuously for a long time. Doing so raises the brightness of the picture and may cause after-images.*
- *Looking at the picture continuously for a long time can tire the eyes. View the monitor from a reasonable distance (about three times the length of the screen).*
- *If something is wrong with this plasma display monitor internally, the built-in protection circuit will cut the power automatically. If so, the power lamp will blink in red, indicating a malfunction.*
- *If the power lamp is blinking red, it is warning that something is wrong with this plasma display monitor. There is a danger of fire or electrical shock, so be certain to unplug the power cord and contact your product dealer. (See page 39)*
- *The plasma display panel has been built using extremely precise and sophisticated technologies. More than 99.99% of its pixels are effective. However, a minute number of pixels are missing or constantly lit.*
- *Do not install this plasma display monitor where there will be interference between it and other AV equipment. (If interference from electromagnetic waves causes jumbled images, noise or malfunctioning of the infrared remote control, change the installation location.)*
- *When the monitor is installed vertically, only still images appears.*

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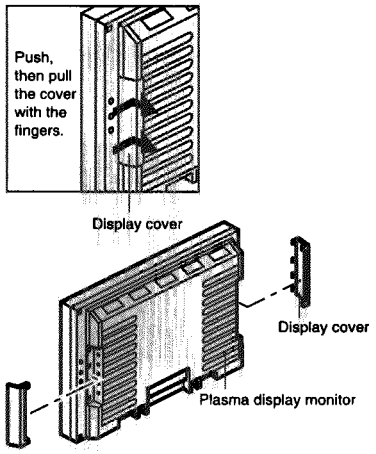
PREVENTING EQUIPMENT FROM FALLING

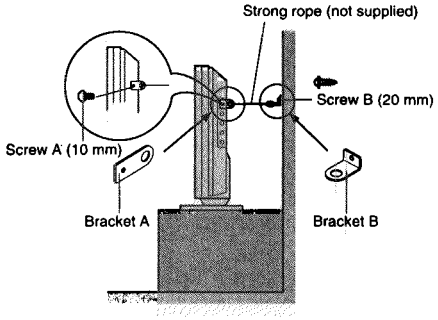
To prevent accidents and to ensure safety during disasters such as earthquakes, take precautions to ensure that the equipment cannot topple over.

ATTACHING TO WALL OR COLUMN

- Remove the display cover from both sides. Then, for both left and right sides, use screw A (10 mm) to attach bracket A to the screw hole (highest of the five holes on the side).
- For both left and right sides, use screw B (20 mm) to attach bracket B to the wall. Then tie brackets A and B with a strong rope so that the display panel does not topple over.
- This arrangement is stable when the rope is horizontal or pulled downward.

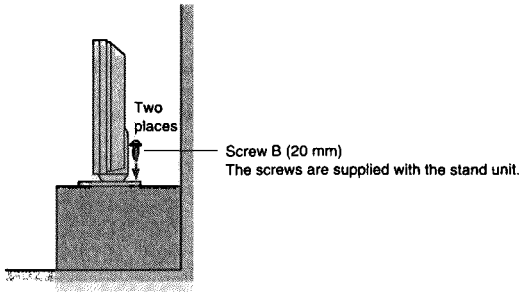
How to remove display cover





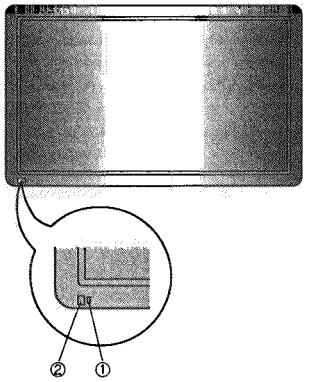
ATTACHING TO STAND UNIT

- Fasten the screws supplied with the stand unit into their holes at the rear of the stand unit. (2 holes)
- For details, refer to TS-C42P1W (option) instruction manual for the stand unit.

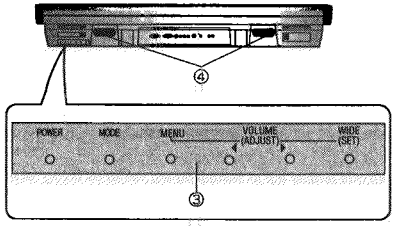


NAMES OF PARTS AND THEIR FUNCTIONS

Front view



Bottom view



① Power lamp
- Shows the power status, ON or OFF.
- Lit (red)····Standby
- Lit (green)····Power on
- Blinking (red)····Internal abnormality. Be certain to unplug the power cord.

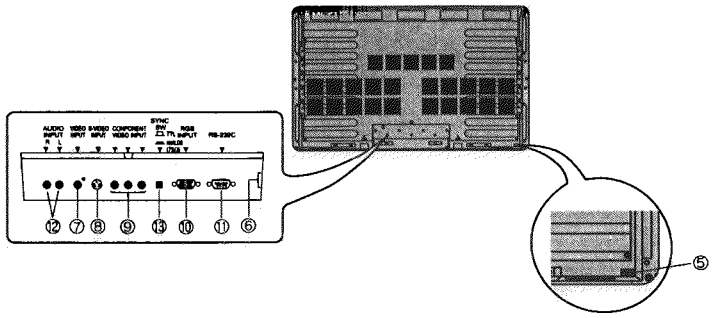
② Remote control receiver
- Receives the signals from the remote controller.

③ Operation panel
- POWER button: Switches the power on or off.
- MODE button: Selects the input mode.
- MENU button: For adjusting the video and audio to your taste.
- VOLUME (ADJUST) ◀ ▶ buttons: Normally used for adjusting the volume. During adjustments, these buttons are used for making adjustments from the menu screen.
- WIDE (SET) button: Normally used for selecting the desired wide screen. During adjustments, this is the (SET) button for setting the menu screen.

④ Internal speakers
- Output the audio connected to the audio input terminals.

NAMES OF PARTS AND THEIR FUNCTIONS

Rear view



⑤ Power switch
- When pressed, power lamp ① lights red, and the power can be turned on or off by the remote controller. When this switch is pressed again, the power is cut and power lamp ① goes off.

⑥ Power input terminal
- Firmly insert the accessory power cord as far as it will go into the power input terminal.
- Firmly push the power cord plug as far as it will go into the power socket. (100 – 240 VAC)

⑦ Video input terminal (VIDEO INPUT)
- Connects to the video output terminal of a video deck or video disc player.

⑧ S video input terminal (S-VIDEO INPUT)
- Connects to the S video output terminal (Mini-DIN (4-pin) terminal) of a video deck or video disc player.

⑨ Component video input terminal (COMPONENT VIDEO INPUT)
- Connects to the component video output terminal of DVD and similar devices.

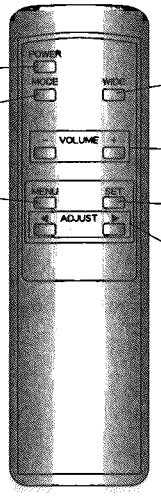
⑩ RGB input terminal (RGB INPUT)
- Connects to the computer monitor's (analog RGB) output terminal.
  Cables connecting the personal computer vary according to the type of machine, so consult your product dealer.

⑪ RS-232C input terminal (RS-232C)
- Connects to the computer RS-232C output terminal.

⑫ Audio input terminals (AUDIO INPUT)
- Connects to the audio output terminal of a video deck or similar device.

⑬ Sync switch (SYNC SW TTL/ANALOG (75 Ω)
- For switching the RGB terminals' 13-pin horizontal sync and 14-pin vertical sync to terminate with 75 Ω. When an analog synchronous signal is input at the RGB terminal, be sure that this switch is set to ANALOG (75 Ω). For connection to a personal computer, be sure it is set to TTL.

A Remote controller



- **POWER button** P13
  Switches the power on or off.
- **MODE button** P13
  Selects the input mode.
- **MENU button** P18–37
  For adjusting the picture and sound to your taste
- **WIDE button** P14–17
  For selecting the desired wide screen
- **VOLUME buttons** P13
  For adjusting the volume
- **SET button** P18–37
  For setting the menu items and adjustment items
- **ADJUST button** P18–37
  For making adjustments from the menu screen

• For the adjustment menu, see the pages below.

Handy functions (on-screen display, speaker, white balance, DPMS, language) P18–21
VIDEO mode adjustment menu P22–29
RGB mode adjustment menu P30–37

Points about usage
- *Do not subject the remote controller to strong mechanical shocks. Doing so can cause malfunction.*
- *D o not get the remote controller wet or leave it in a hot location or near any heat source such as a heater. Doing so can cause malfunction or deformation.*
- *Do not wipe the remote controller with volatile liquids such as benzine or paint thinner.*

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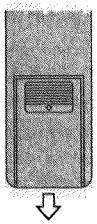
NAMES OF PARTS AND THEIR FUNCTIONS

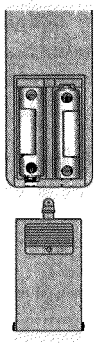
Handling the remote controller

Loading the batteries

1 **Press on the cover and slide in the direction of the arrow.**

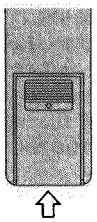


2 **Load two AA/R6 batteries, taking care that the + and – ends face the correct direction.**



* To avoid short circuits, be sure to insert the battery negative [–] pole first.

3 **Close the cover until it clicks.**

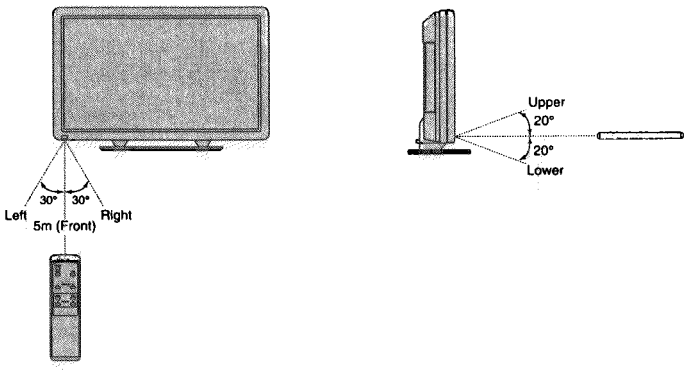


The instruction below applies only to the use in Holland.

Gebruike batterijen:

NL Niet weggooien, maar inleveren als KCA.

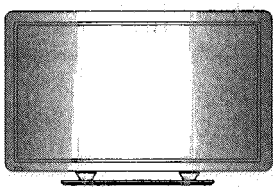
Reception range of remote controller

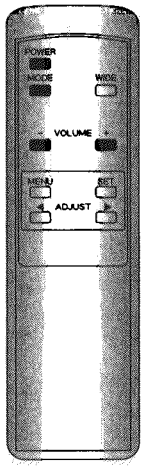


Points about usage

- *Use the remote controller pointed in the direction of the remote control reception section, making sure there is no obstruction.*
- *The remote controller may not operate correctly in a room using high-frequency fluorescent lights. If this happens, move away from those lights.*
- *After it has been used for a long time, the remote controller batteries go flat. When this happens, replace them with new ones.*
- *When replacing the batteries, make sure they are the same type as the originals.*
- *Use the supplied batteries to check that the remote controller is operating correctly.*

BASIC OPERATIONS





* This operation can also be done using the buttons on the Display's operation panel.

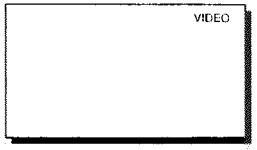
PREPARATION

Switch on the main power switch.

Press the main POWER SWITCH at the rear. The power lamp lights (red). Pressing this switch again switches off the power.

1 **Press the POWER button.**

The power lamp changes from red to green.

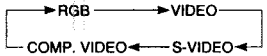


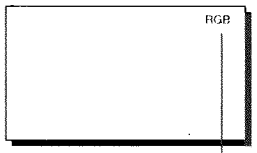
Example: VIDEO mode

2 **Select the video mode.**

Select the video mode with the MODE button.

Pressing the MODE button moves the mode to the next item as below.





Example: When RGB selected

Mode display

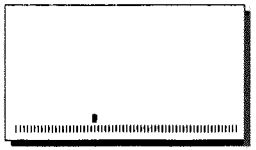
* Adjusting the volume

Use the VOLUME buttons to adjust the volume .

+ button····Raises the volume.

– button····Lowers the volume.

* The current volume setting is memorized even when the power is switched off.

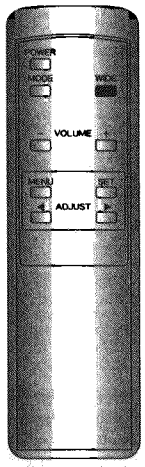


Mode display

- *COMP.VIDEO stands for component video mode.*
- *When the speaker setting (see page 19) is OFF, SPEAKER OFF will be displayed if the VOLUME button is pressed.*

VIEWING WIDE SCREEN (VIDEO MODE)

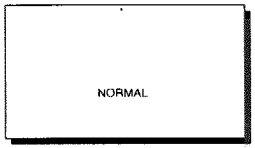
SWITCHING THE WIDE SCREEN AUTOMATICALLY



• This operation can also be done using the buttons on the Display's operation panel.

1 Press the WIDE button.

The current viewing mode is displayed.

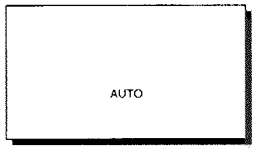


Example: NORMAL mode

2 With the WIDE button, select AUTO mode.

Pressing the WIDE button moves the mode to the next item as below.

NORMAL → AUTO → WIDE1 → WIDE2 → ZOOM1 → ZOOM2 → NORMAL



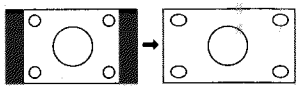
Example: When AUTO is selected,

When AUTO is selected, the wide screen is automatically selected according to the contents of the video.

* AUTO mode cannot be selected in COMPONENT VIDEO mode.

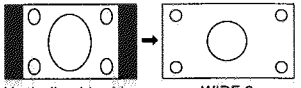
In AUTO mode, the contents of the video software are detected and the display switches to the optimum wide screen as follows:

• WIDE 1
The appropriate wide screen for ordinary video (4:3) software.



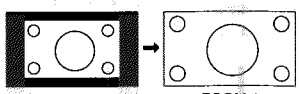
Ordinary video (4:3 video) WIDE 1

• WIDE 2
Appropriate for 16:9 video compressed to horizontally wide 4:3 video.



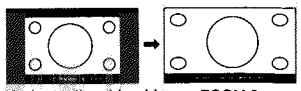
Vertically wide video WIDE 2

• ZOOM 1
Appropriate for horizontally wide video software; a normal picture appears with the top, bottom, left, and right enlarged.



Horizontally wide video ZOOM 1

• ZOOM 2
For horizontally wide video software with subtitles, the display is automatically adjusted to compress the subtitle section so that it is not cut out.



Horizontally wide video with subtitles NORMAL mode ZOOM 2 Wide screen

When AUTO mode is selected

With certain software, this plasma display monitor may not operate correctly in AUTO mode. If so, use the WIDE button to switch to the most appropriate screen size.

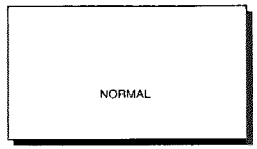
Examples:

- *Some game software will invoke the zoom screen (where the top and bottom of the screen are missing).*
- *For some 4:3 video software, in scenes where the top and bottom are extremely dark, the display may switch to the zoom screen.*
- *For video software that switches to the zoom screen automatically, the display may take a few moments to switch to the zoom screen for the first dark scene.*

SETTING THE DESIRED WIDE SCREEN SIZE

1 Press the WIDE button.

The current viewing mode is displayed.



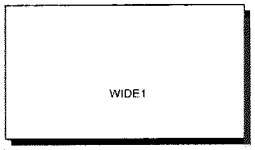
2 Use the WIDE button to select the desired screen size.

Pressing the WIDE button moves the mode to the next item as below.

NORMAL → AUTO → WIDE1 → WIDE2 → ZOOM1 → ZOOM2 → NORMAL

Select the wide screen size to suit the program.

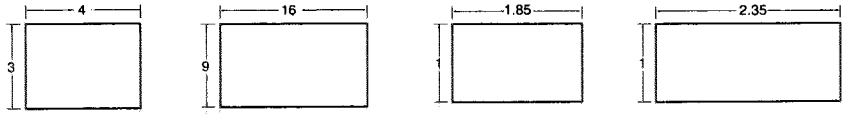
*AUTO mode cannot be selected in COMPONENT VIDEO mode.



Example: When WIDE 1 is selected

SCREENS ASPECT RATIO

The aspect ratios (horizontal to vertical size ratios) for broadcasts and videos are as follows:



• VHF/UHF broadcasts • Vistavision size software • Vistavision size software • Cinemavision size software

* Even when ZOOM 1 or ZOOM 2 is set for Vistavision size or Cinemavision size software that is predominantly used for movie software, dark areas may remain at the top and bottom.

Points about usage

- *This plasma display monitor can be switched to a variety of screen modes. When the selected mode has a different picture aspect ratio from the media to be viewed, the picture will appear different from the original. Keep this in mind when selecting the screen mode.*
- *Note that use of a wide select function to change the screen size or aspect ratio during commercial use or for public viewing in a coffee shop, hotel, or the like, may infringe on copyrights protected by the copyright law. To respect the intent of the creators of the original video, use NORMAL mode.*
- *If the wide select function is used to display non-wide screen conventional (normal) 4:3 video software over the entire screen, the picture will be deformed with part of the edge not visible.*
- *VIDEO mode is the generic term for VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode.*

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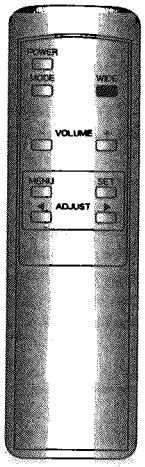
VIEWING·WIDE SCREEN (RGB MODE)

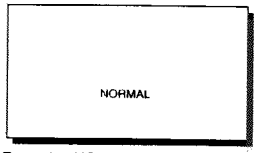
SETTING THE DESIRED WIDE SCREEN SIZE



• This operation can also be done using the buttons on the Display's operation panel.

1 Press the WIDE button.

The current viewing mode is displayed.

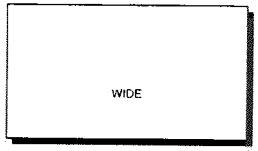


Example: NORMAL

2 Use the WIDE button to select the desired screen size.

Pressing the WIDE button moves the mode to the next item as below.

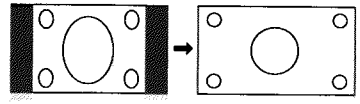
NORMAL ◄—► WIDE



Example: When WIDE is selected

WIDE SCREEN MODES (RGB MODE)

• When the screen is vertically wide

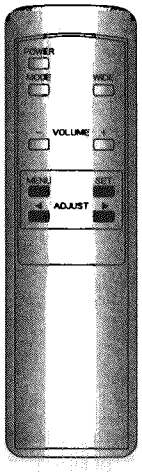


Vertically wide video → WIDE

Points about usage

- *Note that use of a wide select function to change the screen size or aspect ratio during commercial use or for public viewing in a coffee shop, hotel, or the like, may infringe on copyrights protected by the copyright law.*
- *To respect the intent of the creators of the original video, use NORMAL mode.*

ON-SCREEN DISPLAY SETTING



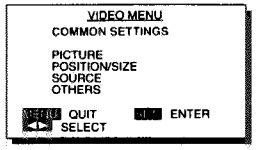
* This operation can also be done using the buttons on the Display's operation panel.

ON-SCREEN DISPLAY SETTING

1 Select COMMON SETTINGS from the VIDEO MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select COMMON SETTINGS.
3) Set by pressing the SET button.

   COMMON SETTINGS can be set in the same way from any mode menu.

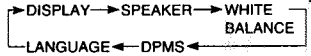


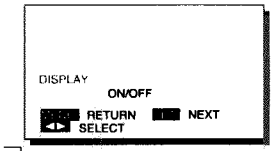
Example: When COMMON SETTINGS is selected

2 Select the adjustment item.

With the SET button, select DISPLAY.

Pressing the SET button moves the selection to the next item as below.





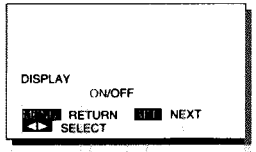
Example: When DISPLAY is selected

3 Set the desired setting.

Pressing the ADJUST button moves the selection to the next item as below.

ON···· The mode is displayed on the screen for a few seconds when the power is first switched on and when the mode is switched.

OFF···The mode is not displayed.



Example: When ON is selected

* To complete adjustments

Press the MENU button to return to the VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

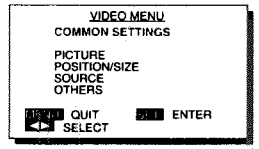
INTERNAL SPEAKER SETTING

INTERNAL SPEAKER SETTING

1 Select COMMON SETTINGS from the VIDEO MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select COMMON SETTINGS.
3) Set by pressing the SET button.

   COMMON SETTINGS can be set in the same way from any mode menu.

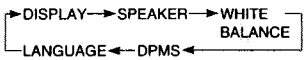


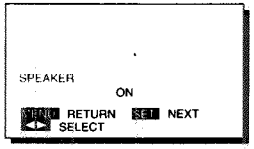
Example: When COMMON SETTINGS is selected

2 Select the adjustment item.

With the SET button, select SPEAKER.

Pressing the SET button moves the selection to the next item as below.



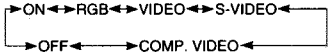


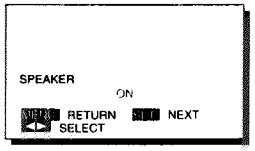
Example: When SPEAKER is selected

3 Set the internal speakers.

Select with the ADJUST button.

Pressing the ADJUST button moves the selection to the next item as below.





Example: When ON is selected

* To complete adjustments

Press the MENU button to return to the VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

Adjustment items

- *Pressing the SET button moves the selection to the next item.*

ON: When using the internal speakers regardless of mode
RGB: When using the internal speakers in RGB mode only
VIDEO: When using the internal speakers in VIDEO mode only
S-VIDEO: When using the internal speakers in S-VIDEO mode only
COMP.VIDEO: When using the internal speakers in COMPONENT VIDEO mode only
OFF: When not using the internal speakers

If there is no operation for 60 seconds, the screen display goes off.

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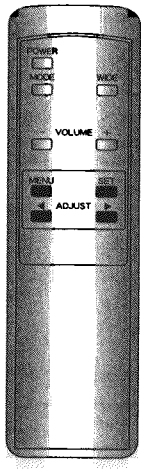
WHITE BALANCE SETTING

WHITE BALANCE SETTING

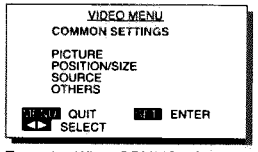


* This operation can also be done using the buttons on the Display's operation panel.

1 Select COMMON SETTINGS from the VIDEO MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select COMMON SETTINGS.
3) Set by pressing the SET button.

COMMON SETTINGS can be set in the same way from any mode menu.



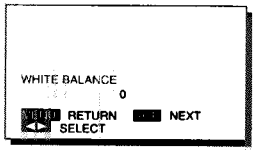
Example: When COMMON SETTINGS is selected

2 Select the adjustment item.

With the SET button, select WHITE BALANCE.

Pressing the SET button moves the selection to the next item as below.

DISPLAY → SPEAKER → WHITE BALANCE → DPMS → LANGUAGE → DISPLAY



Example: When WHITE BALANCE is selected

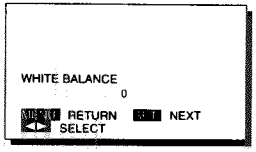
3 Adjust to the desired white balance.

With the ADJUST button, select the desired WHITE BALANCE.

Select the tint with the ADJUST button.

Pressing the ADJUST button moves the selection to the next item as below.

0 ↔ 1 ↔ 2 ↔ 3 ↔ 0



Example: When 0 is selected

* To complete adjustments

Press the MENU button to return to the VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

DPMS AND DISPLAY LANGUAGE SETTING

DPMS AND DISPLAY LANGUAGE SETTING

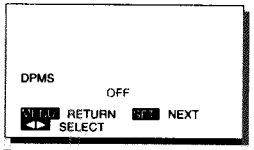
DPMS SETTING

The time until the power conservation function operates can be set.

Select with the ADJUST button.

Pressing the ADJUST button moves the selection to the next item as below.

OFF ↔ 1MIN ↔ 2MIN ↔ 3MIN ↔ 4MIN ↔ 5MIN ↔ OFF



Example: When OFF is selected

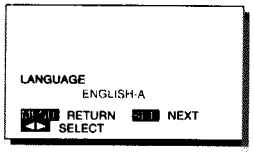
LANGUAGE (DISPLAY LANGUAGE) SETTING

The language for the display can be set.

Select with the ADJUST button.

Pressing the ADJUST button moves the selection to the next item as below.

ENGLISH-A ↔ ENGLISH-B ↔ DEUTSCH ↔ FRANÇAIS ↔ ESPAÑOL ↔ ENGLISH-A



Example: When ENGLISH-A is selected

Note: The setting title and guidance display also change.

Setting titles

LANGUAGE ↔ LANGUAGE ↔ IDIOMA ↔ LANGUE ↔ SPRACHE ↔ LANGUAGE

Adjustment items

- *An adjustment item is selected each time the SET button is pressed.*

DPMS

DPMS stands for Display Power Management Signaling. It is a function that automatically reduces the amount of power consumed by the monitor.

When the power is on, if no signal is input within the set time, the power management function is triggered, the monitor screen is automatically switched off, and the monitor goes on standby.

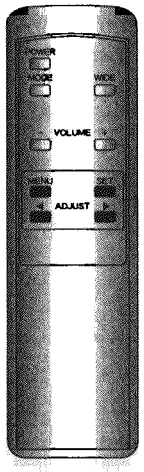
This signal wait time can be set from 1 to 5 minutes in units of one minute. Also, the power management function can be switched off. (The factory setting is OFF.)

This display has a five-language on screen menu.

ENGLISH-A ---------- American English
ENGLISH-B ---------- British English
DEUTSCH ---------- German
FRANÇAIS ---------- French
ESPAÑOL ---------- Spanish

If there is no operation for 60 seconds, the screen display goes off.

VIDEO ADJUSTMENTS (VIDEO MODE)

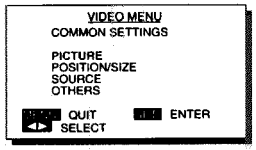


* This operation can also be done using the buttons on the Display's operation panel.

EXAMPLE: ADJUSTING THE BRIGHTNESS

1 Select PICTURE from the VIDEO MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select PICTURE.
3) Set by pressing the SET button.

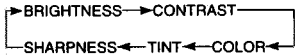


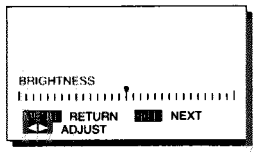
Example: When PICTURE is selected

2 Select the adjustment item.

With the SET button, select BRIGHTNESS.

Pressing the SET button moves the selection to the next item as below.

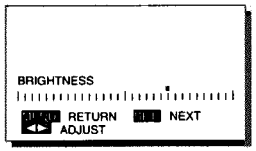




Example: When BRIGHTNESS is selected

3 Adjust to the desired picture.

- ▶ button····Makes the picture brighter.
- ◀ button····Makes the picture darker.
- * To adjust multiple items, repeat Steps **2** and **3**.



Example: When the ▶ is pressed

* To complete adjustments

Press the MENU button to return to the VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

* The adjustments are saved for each video mode (VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode).

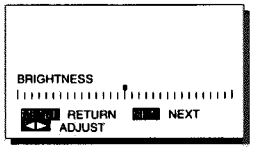
VIDEO ADJUSTMENT ITEMS

BRIGHTNESS

Screen brightness can be adjusted.

▶ button: Makes the picture brighter.

◀ button: Makes the picture darker.

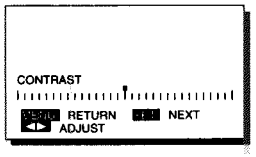


CONTRAST

Screen contrast (difference between dark and light) can be adjusted.

▶ button: Makes the contrast stronger.

◀ button: Makes the contrast weaker.

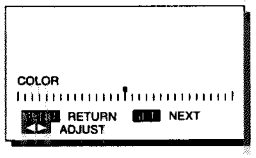


COLOR (color saturation)

Color saturation can be adjusted.

▶ button: Makes the color more saturated.

◀ button: Makes the color less saturated.

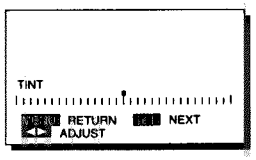


TINT

Color tint can be adjusted.

▶ button: Makes the tint greener.

◀ button: Makes the tint more purple.

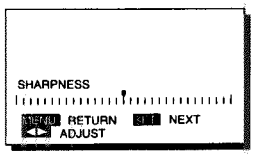


SHARPNESS

Picture sharpness can be adjusted.

▶ button: Makes a sharper picture.

◀ button: Makes a softer picture.



Adjustment Items

- *Pressing the SET button moves selection to the next item.*
- *VIDEO mode is the generic term for VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode.*
- *The adjustments are saved for each video mode.*
- *TINT functions only in NTSC mode.*

If there is no operation for 60 seconds, the screen display goes off.

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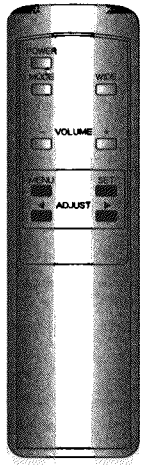
SCREEN ADJUSTMENT (VIDEO MODE)

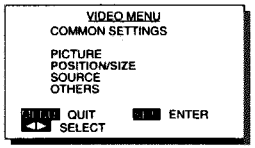


* This operation can also be done using the buttons on the Display's operation panel.

EXAMPLE: ADJUSTING THE SCREEN VERTICAL POSITION

1 Select POSITION/SIZE from the VIDEO MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select POSITION/SIZE.
3) Set by pressing the SET button.



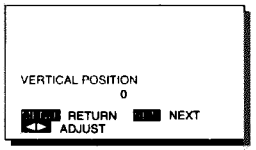
Example: When POSITION/SIZE is selected

2 Select the adjustment item.

With the SET button, select VERTICAL POSITION.

Pressing the SET button moves the selection to the next item as below.

VERTICAL POSITION → HEIGHT → HORIZONTAL POSITION → HORIZONTAL WIDTH → VERTICAL POSITION



Example: When VERTICAL POSITION is selected

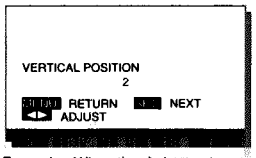
3 Adjust with the ADJUST button.

▶ button····Moves the screen up.

◀ button····Moves the screen down.

For the adjustment range, see the opposite page.

To adjust multiple items, repeat steps **2** and **3**.



Example: When the ▶ botton is pressed

* To complete adjustments

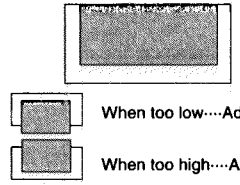
Press the MENU button to return to the VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

* The adjustments are saved for each video mode (VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode).

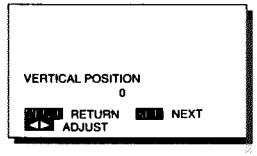
ADJUSTMENT ITEM LIST (ADJUSTMENT CRITERIA)

VERTICAL POSITION

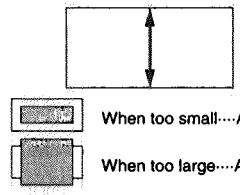


When too low····Adjust with the ▶ button.

When too high····Adjust with the ◀ button.

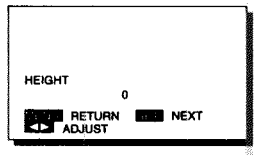


HEIGHT

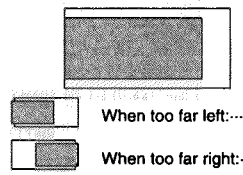


When too small····Adjust with the ▶ button.

When too large····Adjust with the ◀ button.

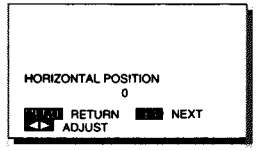


HORIZONTAL POSITION

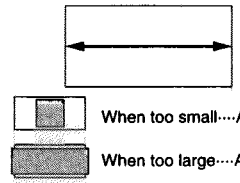


When too far left:····Adjust with the ▶ button.

When too far right:····Adjust with the ◀ button.

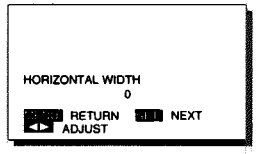


HORIZONTAL WIDTH



When too small····Adjust with the ▶ button.

When too large····Adjust with the ◀ button.



Adjustment items
- *Pressing the SET button moves selection to the next item.*

VERTICAL POSITION
- *For VIDEO and S-VIDEO modes:*
  ZOOM: –15 through +15 Other: –7 through +7 COMPONENT VIDEO mode: –90 through +90

HEIGHT
- *For VIDEO and S-VIDEO modes: –7 through +7 COMPONENT VIDEO mode: –70 through +70*

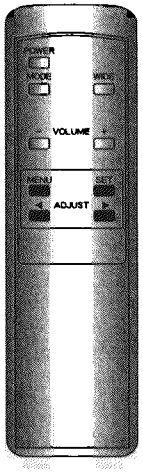
HORIZONTAL POSITION
- *For VIDEO and S-VIDEO modes: –31 through +31 COMPONENT VIDEO mode: –90 through +90*

HORIZONTAL WIDTH
- *For all modes: –7 through +7*
- *VIDEO mode is the generic term for VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode.*
- *The adjustments are saved for each video mode.*

If there is no operation for 60 seconds, the screen display goes off.

http://www.manualscenter.com

INPUT SOURCE ADJUSTMENTS (VIDEO MODE)



* This operation can also be done using the buttons on the Display's operation panel.

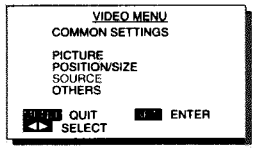
EXAMPLE: SETTING COMPONENT VIDEO

Setting must be done when connecting a color difference signal to the COMPONENT VIDEO terminal.

1 Select SOURCE from the VIDEO MENU screen.

1) In COMPONENT VIDEO mode, press the MENU button.
2) With the ADJUST button, select SOURCE.
3) Set by pressing the SET button.

* This setting can be done in COMPONENT VIDEO mode only.



Example: When SOURCE is selected

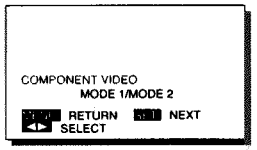
2 Select the adjustment item.

With the SET button, select COMPONENT VIDEO.

Pressing the SET button moves the selection to the next item as below.

COMPONENT VIDEO ⟷ CLAMP PULSE

* COMPONENT VIDEO and CLAMP PULSE are set for COMPONENT VIDEO mode. VIDEO SYSTEM can be set for VIDEO mode and S-VIDEO mode.



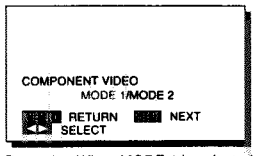
Example: When COMPONENT VIDEO is selected

3 Set the connected equipment.

Select with the ADJUST button.

MODE 1: Use this mode for normal usage such as DVD, BETACAM or other standard component video signals.

MODE 2: Use this mode only for MUSE signal (Hi-Vision – Japanese high definition video signal).



Example: When MODE 1 is selected

* To complete adjustments

Press the MENU button to return to the VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

* COMPONENT VIDEO and CLAMP PULSE can be set in COMPONENT VIDEO mode only. VIDEO SYSTEM can be set in VIDEO mode and S-VIDEO mode only.

SETTING VIDEO SYSTEM AND CLAMP PULSE

VIDEO SYSTEM

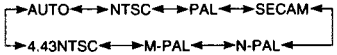
VIDEO SYSTEM can be set when the signal is connected to the VIDEO or S-VIDEO input terminal.

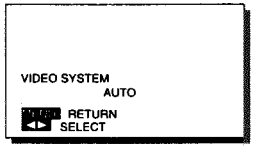
Set by adjusting to the connected signal.

In VIDEO or S-VIDEO mode, press the MENU button to select SOURCE.

Select with the ADJUST button.

Pressing the ADJUST button moves the selection to the next item as below.





* When N-PAL and M-PAL signals are input, signals cannot be received successfully in AUTO mode. Select either N-PAL or M-PAL.
* This setting can be done in VIDEO mode and S-VIDEO mode only. The VIDEO SYSTEM setting is saved for VIDEO mode and S-VIDEO mode.

CLAMP PULSE

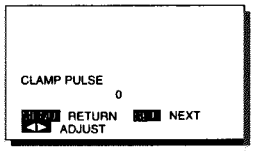
When connecting a color difference signal to the COMPONENT VIDEO input terminal, CLAMP PULSE must be set.

This setting switches the phase of the clamp pulse.

The ADJUST button can be adjusted in the range from 0 through 4.

Select so the optimum picture is attained.

* This setting can be done in COMPONENT VIDEO mode only.



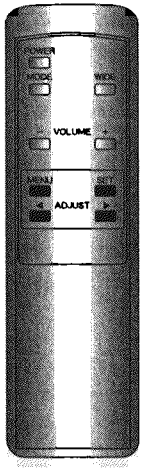
Adjustment items

- *Pressing the SET button moves selection to the next item.*
- *Set CLAMP PULSE as follows, depending on the connected device signal.*

0: 0.98 µs
1: 1.140 µs (Hi-Vision – Japanese high difinition video signal)
2: 2.237 µs
3: 4.12 µs
4: 5.94 µs (Color system PAL, SECAM)
** Delay time from H-sync.*
When connecting the other devices than the ones described above, adjust the clamp pulse so that the optimum image is obtained.
If there is no operation for 60 seconds, the screen display goes off.

OTHER ADJUSTMENTS (VIDEO MODE)

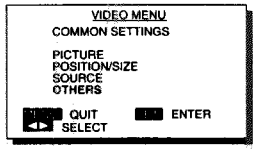
EXAMPLE: MAKING THE GAMMA SETTING



* This operation can also be done using the buttons on the Display's operation panel.

1 Select OTHERS from the VIDEO MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select OTHERS.
3) Press the SET button to fix the OTHER setting.



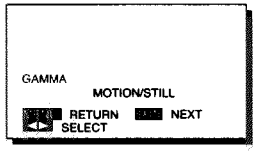
Example: When OTHERS is selected

2 Select the adjustment item.

With the SET button, select GAMMA.

Pressing the SET button moves the selection to the next item as below.

GAMMA ⟷ GRADATION



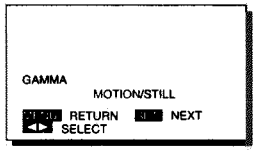
Example: When GAMMA is selected

3 Select the desired picture.

Select with the ADJUST button.

MOTION
Carries out automatic correction so that the video is optimum for viewing moving images.

STILL
Carries out automatic correction so that the video is optimum for viewing still images.



Example: When MOTION is selected

* To complete adjustments

Press the MENU button to return to VIDEO MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

* The adjustments are saved for each video mode (VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode).

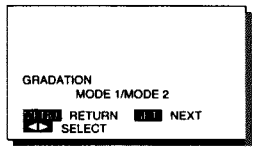
OTHER ADJUSTMENT ITEMS

GRADATION

Gradation display can be selected to suit still or moving images.

MODE1···· Carries out automatic correction so that the video is optimum for viewing moving images.

MODE2···· Carries out automatic correction so that the video is optimum for viewing still images.

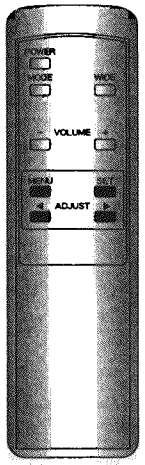


Adjustment items

- *Pressing the SET button moves selection to the next item.*
- *VIDEO mode is the generic term for VIDEO mode, S-VIDEO mode, and COMPONENT VIDEO mode.*
- *The adjustments are saved for each video mode.*

If there is no operation for 60 seconds, the screen display goes off.

VIDEO ADJUSTMENTS (RGB MODE)

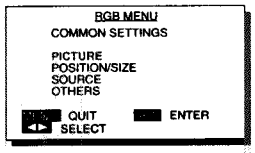


* This operation can also be done using the buttons on the Display's operation panel.

EXAMPLE: ADJUSTING THE CONTRAST

1 Select PICTURE from the RGB MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select PICTURE.
3) Set by pressing the SET button.



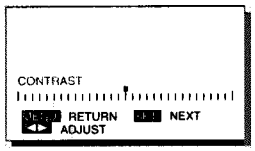
Example: When PICTURE is selected

2 Select the adjustment item.

With the SET button, select CONTRAST.

Pressing the SET button moves the selection to the next item as below.

BRIGHTNESS ◄—► CONTRAST



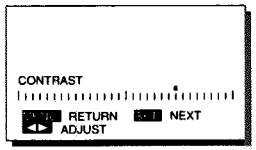
Example: When CONTRAST is selected

3 Adjust to the desired picture.

► button····Makes the contrast stronger.

◄ button····Makes the contrast weaker.

To adjust another item, repeat steps 2 and 3.



Example: When the ► button is pressed

* To complete adjustments

Press the MENU button to return to the RGB MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

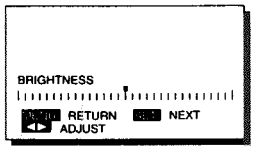
VIDEO ADJUSTMENT ITEMS

BRIGHTNESS

Screen brightness can be adjusted.

► button: Makes the picture brighter.

◄ button: Makes the picture darker.

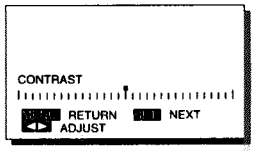


CONTRAST

Screen contrast (difference between dark and light) can be adjusted.

► button: Makes the contrast stronger.

◄ button: Makes the contrast weaker.



Adjustment items

- *Pressing the SET button moves the selection to the next item.*

If there is no operation for 60 seconds, the screen display goes off.

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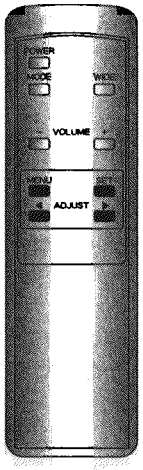
SCREEN ADJUSTMENT (RGB MODE)

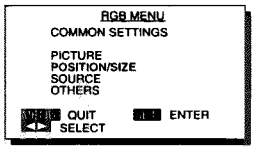


* This operation can also be done using the buttons on the Display's operation panel.

EXAMPLE: ADJUSTING THE VERTICAL WIDTH OF THE SCREEN

1 Select POSITION/SIZE from the RGB MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select POSITION/SIZE.
3) Set by pressing the SET button.

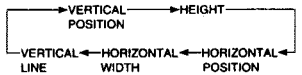


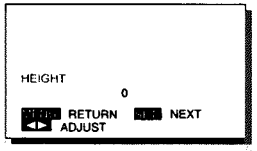
Example: When POSITION/SIZE is selected

2 Select the adjustment item.

With the SET button, select HEIGHT.

Pressing the SET button moves the selection to the next item as below.





Example: When HEIGHT is selected

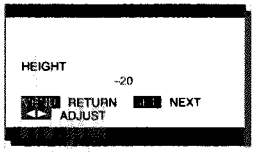
3 Adjust with the ADJUST button.

▶ button····Enlarges the screen.

◀ button····Reduces the screen.

The adjustment range is from −150 through +150.

To adjust multiple items, repeat steps **2** and **3**.



Example: When the ◀ botton is pressed

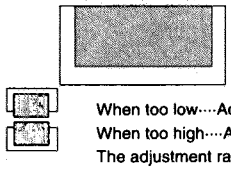
* To complete adjustments

Press the MENU button to return to the RGB MENU.

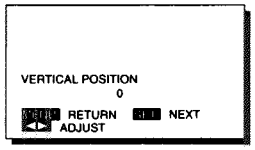
Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

ADJUSTMENT ITEM LIST (ADJUSTMENT CRITERIA)

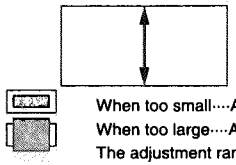
VERTICAL POSITION



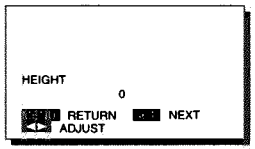
When too low····Adjust with the ▶ button.
When too high····Adjust with the ◀ button.
The adjustment range is from −250 through +250.



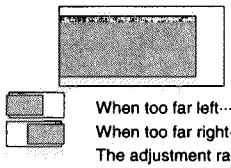
HEIGHT



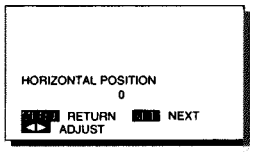
When too small····Adjust with the ▶ button.
When too large····Adjust with the ◀ button.
The adjustment range is from −150 through +150.



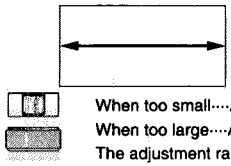
HORIZONTAL POSITION



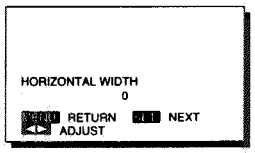
When too far left····Adjust with the ▶ button.
When too far right····Adjust with the ◀ button.
The adjustment range is from −250 through +250.



HORIZONTAL WIDTH

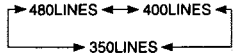


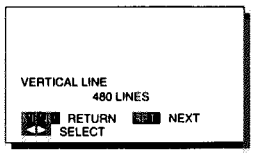
When too small····Adjust with the ▶ button.
When too large····Adjust with the ◀ button.
The adjustment range is from −150 through +150.



VERTICAL LINE

The number of vertical lines on the screen can be set.
With the ADJUST button, select the number of vertical lines.
Pressing the ADJUST button moves the selection to the next item as below.





Adjustment items

- *Pressing the SET button moves selection to the next item.*
- *After adjustment, the screen may be jumbled. If so, return the setting to the original adjustment value.*

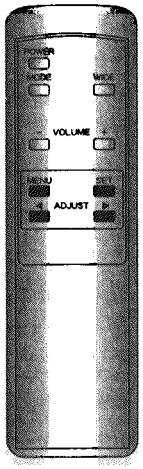
If there is no operation for 60 seconds, the screen display goes off.

INPUT SOURCE ADJUSTMENTS (RGB MODE)

The Macintosh mode and the clamp pulse mode can be set for the input source, and the input signal can be confirmed.

EXAMPLE: SETTING MACINTOSH MODE

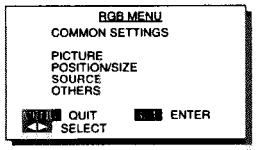
The Apple Macintosh has two dot clocks. If the display is partly cut or the video and the dot clock do not match, set the dot clock as follows:



* This operation can also be done using the buttons on the Display's operation panel.

1 Select SOURCE from the RGB MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select SOURCE.
3) Set by pressing the SET button.



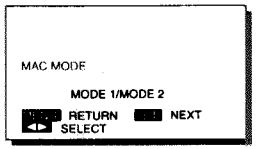
Example: When SOURCE is selected

2 Select the adjustment item.

With the SET button, select MAC MODE.

Pressing the SET button moves the selection to the next item as below.

MAC MODE → CLAMP PULSE → SIGNAL INFORMATION → MAC MODE



Example: When MAC MODE is selected

3 Select the appropriate mode for the dot clock.

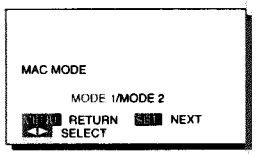
Select with the ADJUST button.

Pressing the ADJUST button moves the selection to the next item as below.

MODE 1 ⟷ MODE 2

	f_H	f_V
MODE 1	35 kHz	66.67 Hz
MODE 2	34.975 kHz	66.61 Hz

To adjust multiple items, repeat steps **2** and **3**.



Example: When MODE1 is selected

* To complete adjustments

Press the MENU button to return to the RGB MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

OTHER ADJUSTMENTS AND CHECK ITEMS

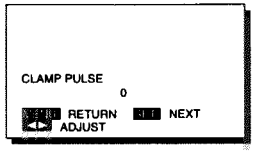
CLAMP PULSE

CLAMP PULSE must be set when the signal is connected to the RGB input terminal.

This setting switches the phase of the clamp pulse.

The ADJUST button can be adjusted in the range from 0 through 4.

Select so that optimum picture is attained.



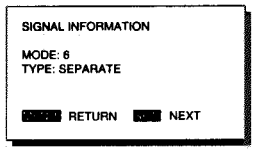
SIGNAL INFORMATION

The sync signal information input from the RGB input terminal can be checked.

MODE: Fixed mode No. (Mode Nos. are set out on page 38.)

TYPE: COMPOSITE, SEPARATE or SYNC ON GREEN.

* For details, see "Personal Computers that Can Be Connected" on page 38.
* When no signal is detected, ***NO SIGNAL*** is displayed.



Adjustment Items

- *Pressing the SET button moves selection to the next item.*
- *Set CLAMP PULSE as follows, depending on the connected device signal.*

0: 0.98 µs
1: 1.140 µs (Hi-Vision – Japanese high difinition video signal)
2: 2.237 µs
3: 4.12 µs (Mac)
4: 5.94 µs (Color system PAL, SECAM)

- *Delay time from H-sync.*

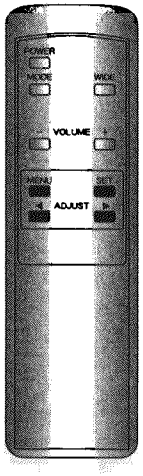
Points about usage

Depending on the type of device inputting the signal, SYNC ON GREEN and other sync signals may be input simultaneously. This can cause the background of the screen to be too bright or too green. If this occurs, set the clamp pulse to 3.

If there is no operation for 60 seconds, the screen display goes off.

OTHER ADJUSTMENTS (RGB MODE)

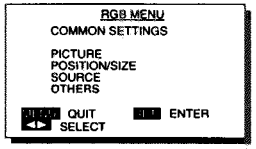
EXAMPLE: SETTING THE GRADATION



* This operation can also be done using the buttons on the Display's operation panel.

1 Select OTHERS from the RGB MENU screen.

1) Press the MENU button.
2) With the ADJUST button, select OTHERS.
3) Set by pressing the SET button.

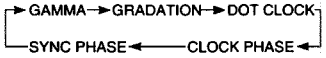


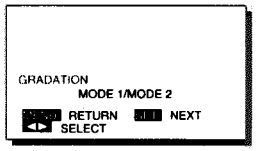
Example: When OTHERS is selected

2 Select the adjustment item.

With the SET button, select GRADATION.

Pressing the SET button moves the selection to the next item as below.





Example: When GRADATION is selected

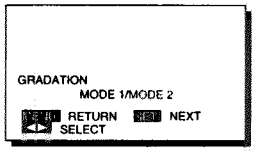
3 Adjust to the desired picture.

Select with the ADJUST button.

MODE1: Carries out automatic correction so that the video is optimum for viewing moving images.

MODE2: Carries out automatic correction so that the video is optimum for viewing still images.

* To adjust multiple items, repeat steps **2** and **3**.



Example: When the MODE 2 is selected

* To complete adjustments

Press the MENU button to return to the RGB MENU.

Pressing the MENU button returns the display to the previous screen and closes the adjustment screen.

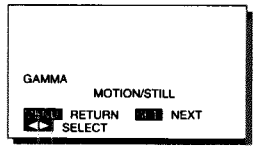
OTHER ADJUSTMENT ITEMS (ADJUSTMENT CRITERIA)

GAMMA

Dynamic GAMMA correction can be set.

MOTION: Set for viewing moving images.

STILL: Set for viewing still images.

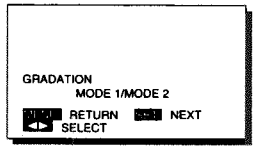


GRADATION

Gradation can be set.

MODE 1: Set for viewing moving images.

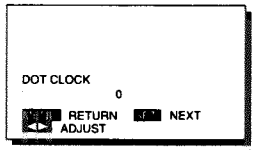
MODE 2: Set for viewing still images.



DOT CLOCK

Depending on the clock frequency of the personal computer, the screen may become blurred. If so, adjust.

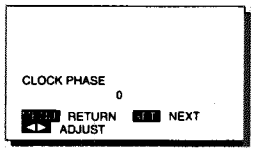
The ADJUST button can be adjusted in the range from –300 through +300.



CLOCK PHASE

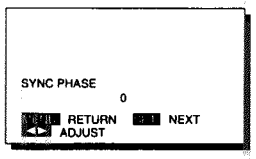
Depending on the clock phase of the personal computer, the screen may become blurred. If so, adjust.

The ADJUST button can be adjusted in the range from 0 through 15.



SYNC PHASE

The screen may tremble vertically. If so, use the ADJUST button to adjust the screen within the range of –2 and +1.



Adjustment Items

- *Pressing the SET button moves selection to the next item.*
- *When GRADATION is automatically recognized in SVGA mode, it cannot be set.*
- *Adjust DOT CLOCK and CLOCK PHASE after invoking normal mode with the WIDE button.*
- *When SVGA mode has been automatically recognized, the screen may be jumbled depending on what equipment is connected. If so, adjust DOT CLOCK.*

If there is no operation for 60 seconds, the screen display goes off.

PERSONAL COMPUTERS THAT CAN BE CONNECTED

This plasma display monitor is set at the factory with adjustment values for 11 types of signals. (See the table below.) When any of these signals is input, it is automatically discriminated. For these signals, the desired screen can be adjusted according to the instructions on adjusting the screen.

This plasma display monitor can also store settings for five types of signals in addition to those set at the factory, as shown in the table below. Input the signals whose settings are to be stored into memory and adjust for the desired screen following the instructions on adjusting the screen. Release the adjustment button to automatically store the level into memory. After adjustment, when the same signals are input, they are displayed with the setting levels last stored into memory.

Factory-set signals

Mode number	Display (dots × lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Supported signal
1	852 × 480	31.72	59.97	Note1 When dedicated wide video card used
2	640 × 480	31.47	59.94	VGA
3	640 × 480	37.86	72.81	VGA 72 Hz
4	640 × 480	37.50	75.00	VGA 75 Hz
5	720 × 400	31.47	70.09	VGA 400 lines
6	640 × 480	34.97	66.61	Mac 13RGB (1)
	640 × 480	35.00	66.67	Mac 13RGB (2)
7	640 × 440	24.83	56.42	PC98 24kHz
8	640 × 400	31.50	70.15	PC98 31kHz
9	800 × 600	35.16	56.25	SVGA 56 Hz Note2
10 11 12 13 14 15 16		15.63 to 60.00	50.00 to 75.00	User settings

Note 1: The dedicated wide video card is separately sold (option).

2: The plasma display converts the 800 × 600-dot signal to the 640 × 480-dot signal and displays the entire screen at the same time. Since the signal is reduced and interpolated, the original resolution of SVGA cannot be retained.

Points about usage

The company names and product names in this document are trademarks or registered trademarks of their respective companies.

The mode numbers indicate the SIGNAL INFORMATION modes set for the RGB mode and input source.

CARE AND MAINTENANCE

BEFORE CLEANING

Always unplug the power cord from the socket.

Cleaning the cabinet and remote controller

Do not use benzene, paint thinner, or other solvents. They can cause deterioration or paint peeling on the cabinet, the screen front filter, or the remote controller.

Wipe gently with a soft cloth.

For stubborn grime, soak the soft cloth in neutral cleaning agent diluted with water, wring it out well, and wipe clean. Then, finish with a dry, soft cloth.

Cleaning the screen (filter)

Wipe gently with a soft cloth.

The surface of the screen is easily scratched, so do not strike it or rub it with anything hard.

BEFORE REQUESTING REPAIR (TROUBLESHOOTING)

What appears to be malfunction may not be always serious.

Check the symptoms and solutions below. If you still cannot solve the problem, contact your nearest JVC-authorized dealer or service center.

Symptom	Check
• The power does not come on.	• Is the power cord disconnected?
• The picture dose not appear.	• Is a cable to other equipment disconnected?
• The remote controller does not work.	• Are the batteries installed with their poles reversed? • Are the batteries flat? • Are you operating from far away? • Are you trying to operate with the transmitting section of the remote controller not facing the reception section of the monitor? • Is there any obstruction between the monitor and the remote controller?
• There is a creaking sound.	• This sound is generated by the expansion and contraction of the cabinet owing to change in the room temperature.
• There is a humming sound.	• This plasma display monitor has heat radiation fins to prevent its internal temperature from rising too high during operation. The sound you hear is the fan rotating.
• There are dots on the screen.	• Is the external equipment being affected by interference from a car, train, high-voltage line, neon light, or the like?
• The colors and tints are not good.	• Do any of the video settings need readjusting?
• There is no sound.	• Are the internal speakers switched off?
• ERROR MESSAGE CONDITION 1 is displayed.	• The fan is malfunctioning. Switch off the power.
• ERROR MESSAGE CONDITION 2 is displayed.	• The temperature inside the set has risen far too high. Switch off the power. (The power can be turned on once the temperature lowers.)

(No.51366) 25

GD-V425PZW

CARE AND MAINTENANCE (continued)

THE FOLLOWING CASES ARE NOT MALFUNCTIONS:

- When the source signal is switched over after the same still image is displayed for a certain period of time (several minutes to several dozen minutes), the picture from the previous signal may remain on the screen. This is due to the characteristics of the plasma display panel and is not a malfunction. This ghost image will disappear when another image has been on display for a while.
- When a video image is displayed for an extended period of time, the screen may radiate heat. This is due to the characteristics of the plasma display panel and is not a malfunction. Turn the power off and let the screen cool.
- Small glittering dots or black dots may appear on the screen. Although the plasma display panel is manufactured with extraordinary high-precision technology that assures over 99.99% effective pixels, the remaining 0.01% may include some missing or always-lit pixels.

Transportation Precautions

- This unit contains ultra-precise and extremely sensitive components. Exclusive packing materials are required for transportation of this unit.

  When this unit must be transported for servicing, consult your dealer beforehand. Do not use packing materials other than those specified by JVC.

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OPTIONAL PRODUCTS

• Stand unit		TS-C42P1W
• Wall mounting unit	For 0° installation angle	TS-C42P2W
	For 10° installation angle	TS-C42P3W
• Ceiling suspension unit	Installation angle variable 0–15°	TS-C42P4W
• Vertical stand unit	For 0° installation angle	TS-C42P5W
• Wide video card	When a wide video card is used with a DOS/V personal computer, an 852 dot x 480 line wide screen can be displayed.	TS-C42P6W

*** When installing an optional product, follow the directions in the optional product user's or installation manual. The colors of this plasma display monitor and optional products are slightly different.**

⚠ WARNING

- *Request your product dealer to mount and install these products.*
  If you do the mounting or moving work yourself, the equipment may fall or topple over, resulting in injuries, fire, or electrocution.

SPECIFICATIONS

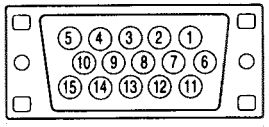
Model name	GD-V425PZW		
Screen size	42 inches (106.6 cm) measured diagonally		
Aspect ratio	16:9		
Weight	38.5 kg (84.7 lbs)		
External dimensions (Width × Height × Depth)	103.5 × 64.0 × 15.0 cm (40-3/4" × 25-1/4" × 6")		
Power supply	100–240VAC, 50/60 Hz		
Power consumption	3.5 A		
Effective screen dimensions (Width × Height, Diagonal)	92.0 × 51.8 cm, 105.5 cm (36-1/8" × 20-3/8", 41-1/2")		
Display pixel count	852 (horizontal) × 480 (vertical)		
Display modes	• Video, S-video input: NORMAL, AUTO, WIDE 1, WIDE 2, ZOOM 1, ZOOM 2 • Component video input: NORMAL, WIDE 1, WIDE 2, ZOOM 1, ZOOM 2 • RGB input: NORMAL, WIDE		
Display color count	16.77 million (256 each for red, green and blue)		
Audio power output	2 W + 2 W (EIAJ)		
Built-in speaker	Two internal (5 × 9 cm oval × 2, impedance of 8 Ω)		
External connection terminals			
Video	• Video input	BNC terminal × 1	1Vp-p/75 Ω
	• S video input	Mini-DIN (4-pin) terminal × 1	Y: 1Vp-p/75 Ω C: 0.286Vp-p (NTSC, burst)/75 Ω 0.3Vp-p (PAL, burst)/75 Ω
	• Component video input	BNC terminal × 3	Y: 1Vp-p/75 Ω PB/B-Y: 0.7Vp-p/75 Ω PR/R-Y: 0.7Vp-p/75 Ω
Compatible format	• NTSC, PAL, SECAM, N-PAL, M-PAL, 4.43NTSC		
PC	• RGB input	D-sub, 3-row 15 pin terminal × 1 Video signal: 0.7Vp-p/75 Ω SYNC signal: TTL level or 0.3Vp-p/75 Ω	
Audio	• Audio input	RCA pin terminal × 2 L/R: 500 mVrms/22 kΩ min.	
Control	• RS-232C	D-sub 9-pin terminal × 1	
Operating conditions	Temperature: 0 to 40°C Humidity: 20 to 80 %		
Accessories	Remote controller × 1, AA/R6 batteries × 2 (for operation check), Power cord (for AC 100 – 125V) × 1, Power cord (for AC 200 – 240V) × 1, Power cord (for AC 240V (SAA type) × 1, Cable clamper × 2, Bracket (2 types) × 2 (4 total), Screw (2 types) × 2 (4 total)		

• Specifications and external appearance may be changed for the sake of improvement.

Attention: *Regular use of screen saver is recommended to prevent the burning of a permanent residual image in the screen.*

RGB input terminal (Display is RGB INPUT.)

Connects to a personal computer RGB output terminal.

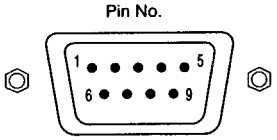


* The sync switch (TTL/ANALOG switch) is on the rear of the 13-pin horizontal sync and 14-pin vertical sync terminals.

Pin No.	Input signal	Pin No.	Input signal
1	Red	9	
2	Green	10	Ground
3	Blue	11	
4		12	
5	Ground	13	Hor. sync
6	Ground	14	Vert. sync
7	Ground	15	
8	Ground	Outer side	Ground

RS-232C input terminal (Display is RS-232C.)

Connects to a personal computer RS-232C terminal.



•

Pin No.	No. Signal
1	DCD (Data Carrier Detect)
2	RD (Receive Data)
3	TD (Transmit Data)
4	DTR (Data Terminal Ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

Points about shipping

This plasma display monitor is a precision instrument, and requires dedicated packing materials for shipping.

• Use JVC's packing materials only.

GD-V425PZW 42 INCH WIDE PLASMA DISPLAY MONITOR

8107427003
0198-K-FG-FJT

JVC
VICTOR COMPANY OF JAPAN, LIMITED

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PLASMA DISPLAY PANEL (PDP) DESCRIPTION

■ Although a PDP is made with highly advanced precision, this does not necessarily mean all of the cells operate correctly. The PDP inevitably includes cells that do not light or light constantly.
If the specifications (PDP performance) are unclear at the time of shipment, an adequate description cannot be conveyed to the customer. In event of inquiries from customers regarding PDP performance, check the following specifications in order to offer a suitable reply.

■ Cell arrangement

The PDP is constructed of front and rear glass substrates provided with respective discharge electrodes. Between these, neon for discharging and xenon for generating ultraviolet rays are enclosed.
One picture element (pixel) is composed of Red, Green and Blue (RGB) cells. The cell pitch is 0.36 mm horizontal (1.08 mm per pixel) by 1.08mm vertical.

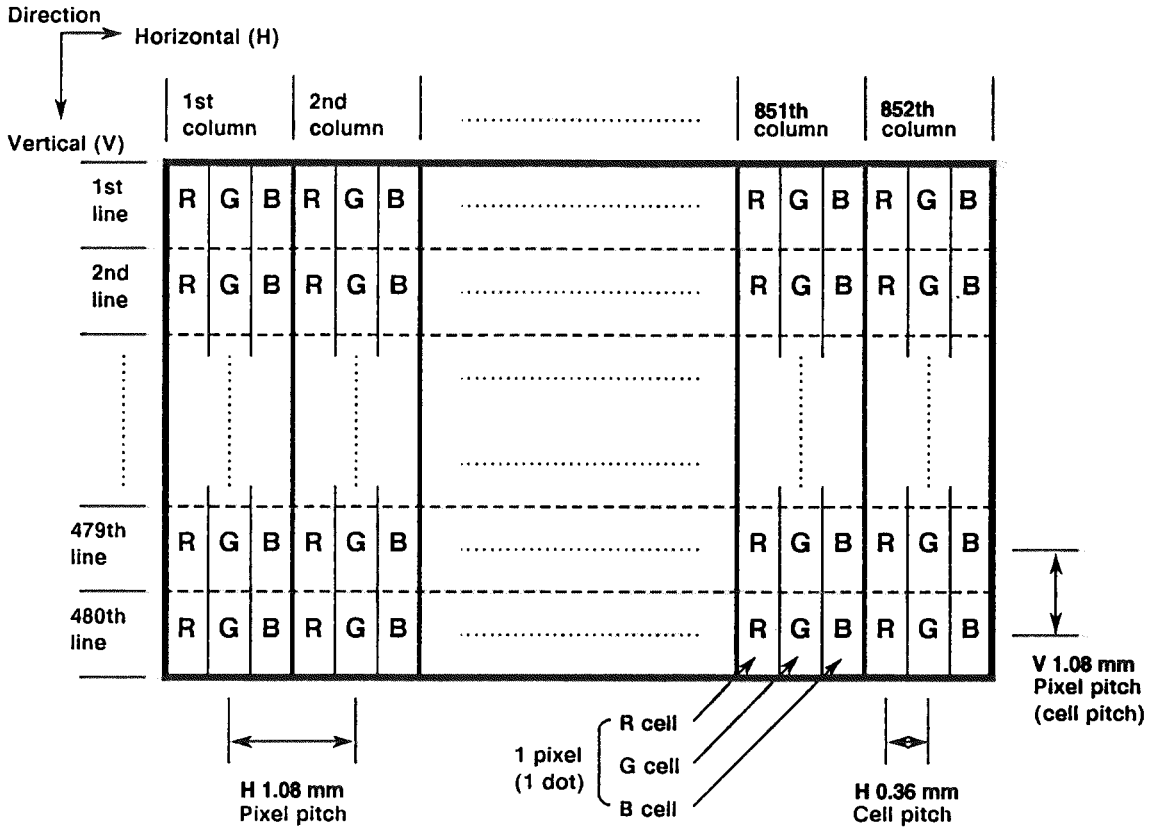

Fig.1

The RGB cell arrangement is indicated in Fig. 1. One picture element is composed by combining one each of the R, G and B color cells.
The size of a single cell is 0.36 mm horizontal by 1.08 mm vertical.

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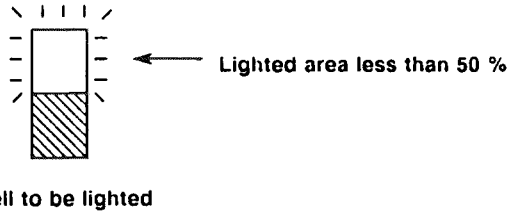
■ Luminance shading

Overall brightness fluctuation of 20% or less is within the specifications.

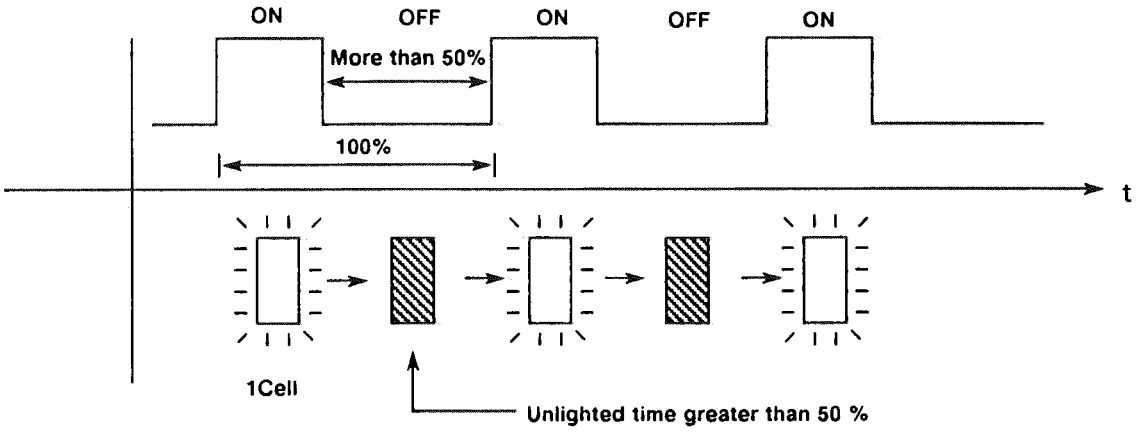
■ Dropouts

A cell dropout is defined as follows.

1) Less than 50 % of a lighted cell area is lighted.

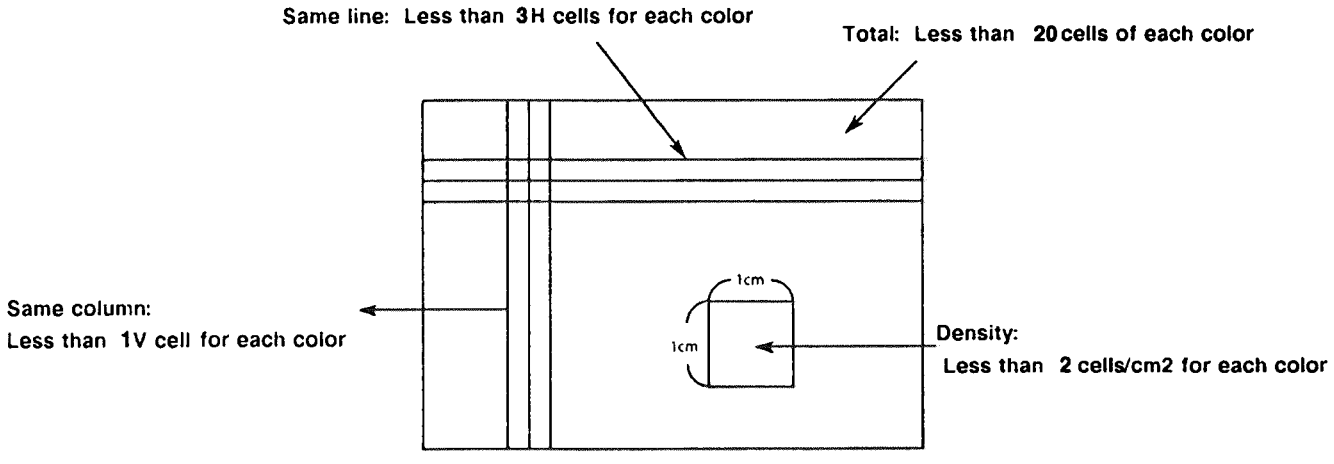


2) A lighted cell blinks and the extinguished time exceeds 50 % of the normally lighted time.



Both the above conditions are considered defects. The number of defects shown below is within the specifications.

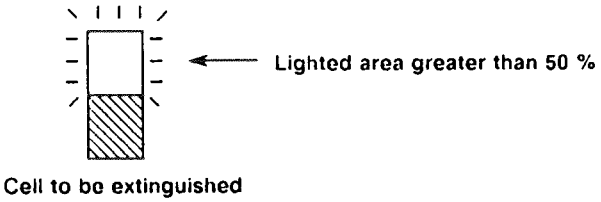
Total:	Less than 20 cells of each color
Density:	Less than 2 cells per square cm for each color
Same column or line:	Less than 3 horizontal cells for each color
	Less than 1 vertical cell for each color


Same line: Less than 3H cells for each color
Total: Less than 20 cells of each color
Same column:
Less than 1V cell for each color
1cm
1cm
Density:
Less than 2 cells/cm2 for each color

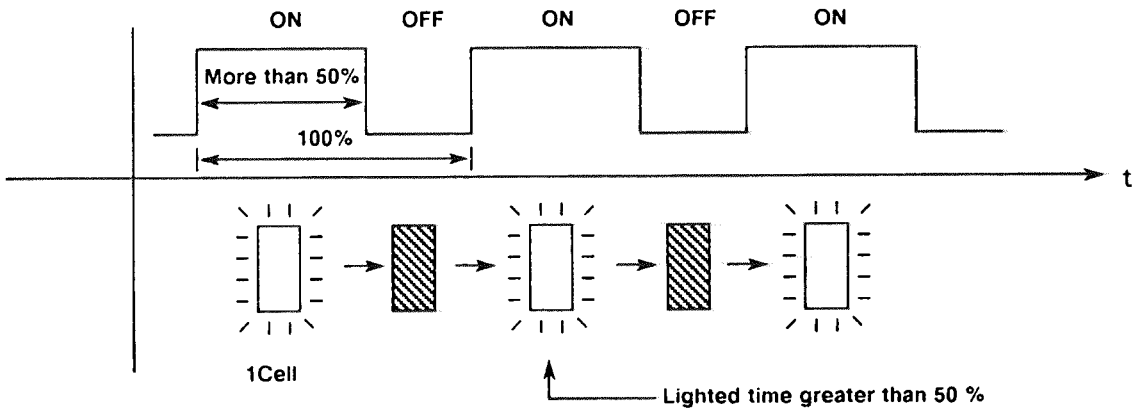
■ Drop-ins

A "drop-in" (opposite of dropout) is defined as follows.

1) More than 50 % of a supposedly extinguished cell area lights.

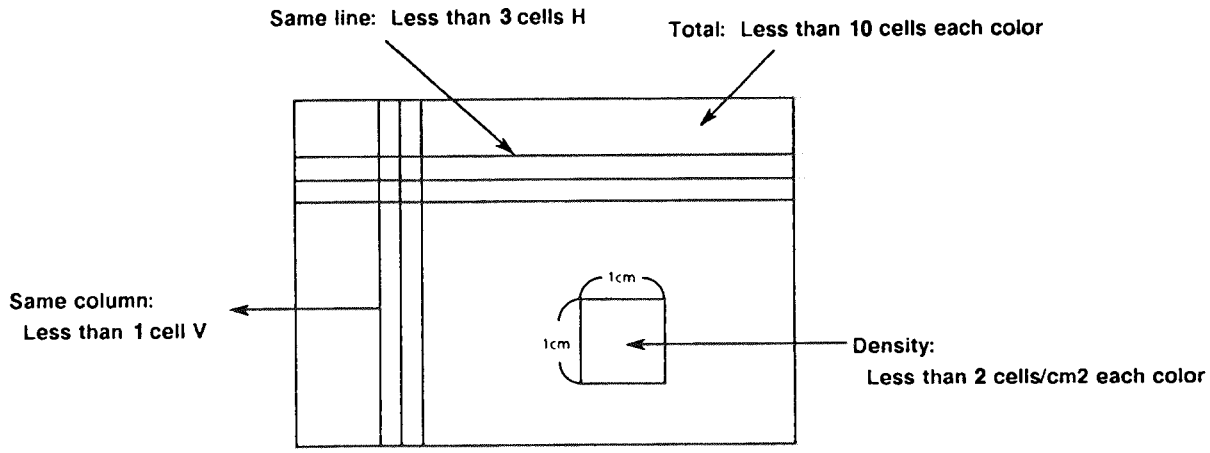


2) A supposedly extinguished cell blinks and the lighted time exceeds 50 % of the extinguished time.



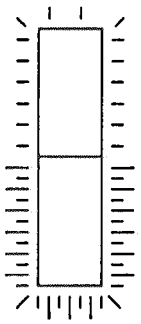
Both the above cases are classified as drop-ins, The number of defects shown below is within the specifications.

Total:	Less than 10 cells of each color
Density:	Less than 2 cells/cm2 for each color
Same line or column:	Less than 3 cells horizontal
	Less than 1 cell vertical



■ High luminosity spots

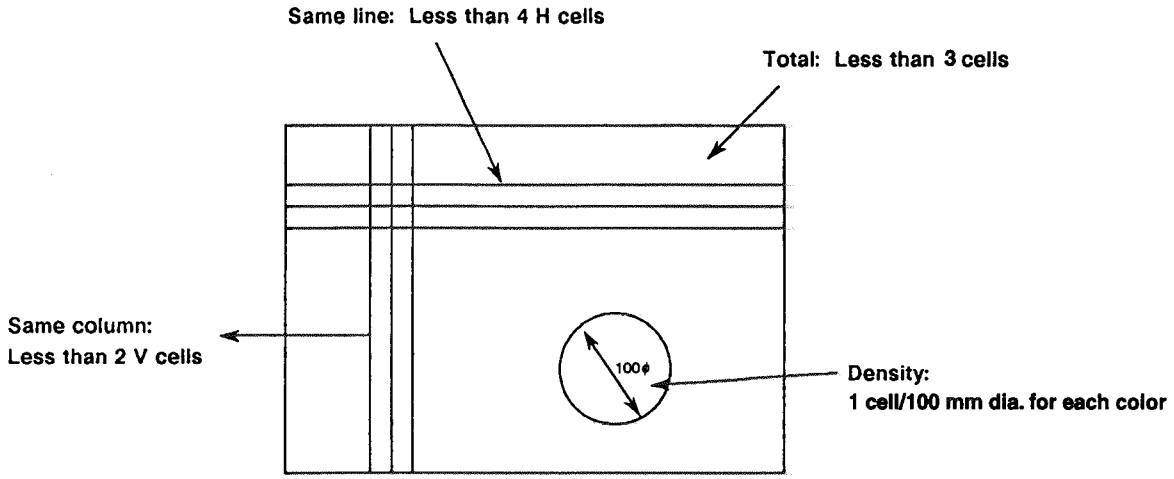
A high luminosity spot is defined as a cell which should be the same brightness as another cell of the same. color, but is more than 2 times brighter.



← Should be the same as upper cell, but is more than 2 times more luminous.

High luminosity spots shown below is within the specifications.

Total :	Less than 3 cells
Density :	1 cell per 100 mm diameter for each color
Same column or line :	Less than 4 horizontal cells
	Less than 2 vertical cells


Same line: Less than 4 H cells
Total: Less than 3 cells
Same column:
Less than 2 V cells
100ϕ
Density:
1 cell/100 mm dia. for each color

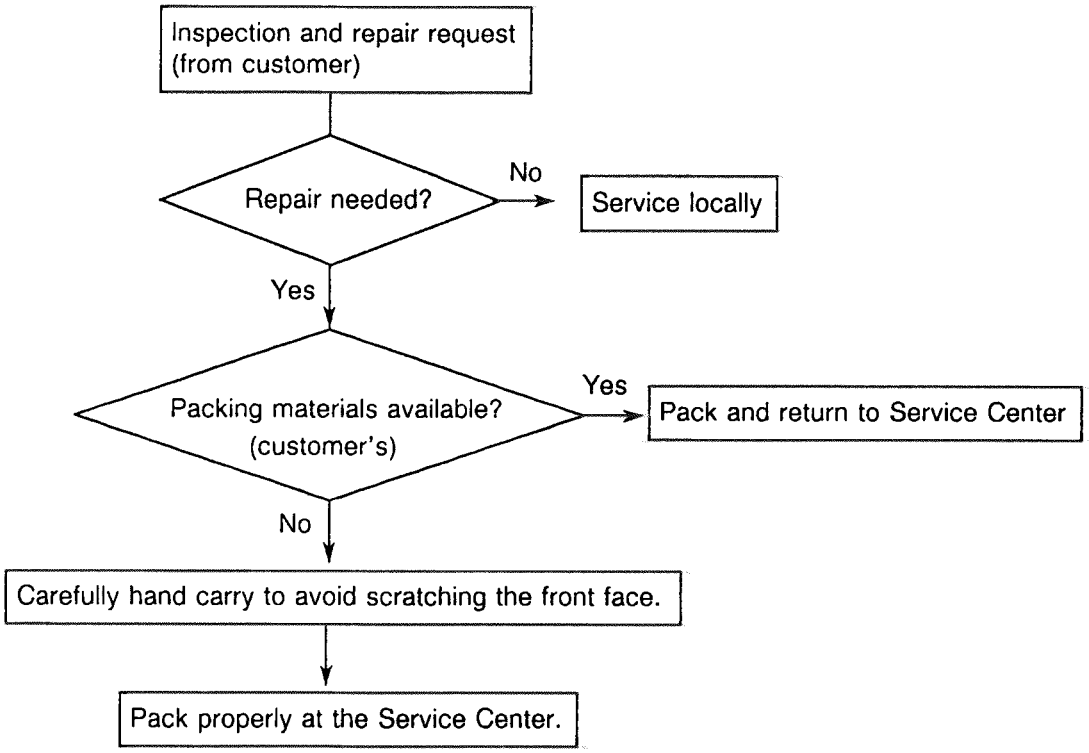
PDP(PLASMA DISPLAY PANEL) HANDLING

■ PACKING CAUTIONS

As mentioned previously, the PDP is extremely delicate and requires thorough care when packing and shipping.

If packed in a manner that applies pressure to the PDP, the PDP will be broken and rendered unrepairable other than complete replacement.

The risk of PDP breakage is very high if the repair, be sure to use the specially designed packing materials.



■ SHIPPING CAUTIONS

Rough handing (dropping, throwing, etc) during shipment can damage the PDP, regardless of how robustly it is packed.

Choose a reputable shipping company and explain the cautions needed in order to avoid damage during shipping. Be sure to insure the shipment against loss or damage.

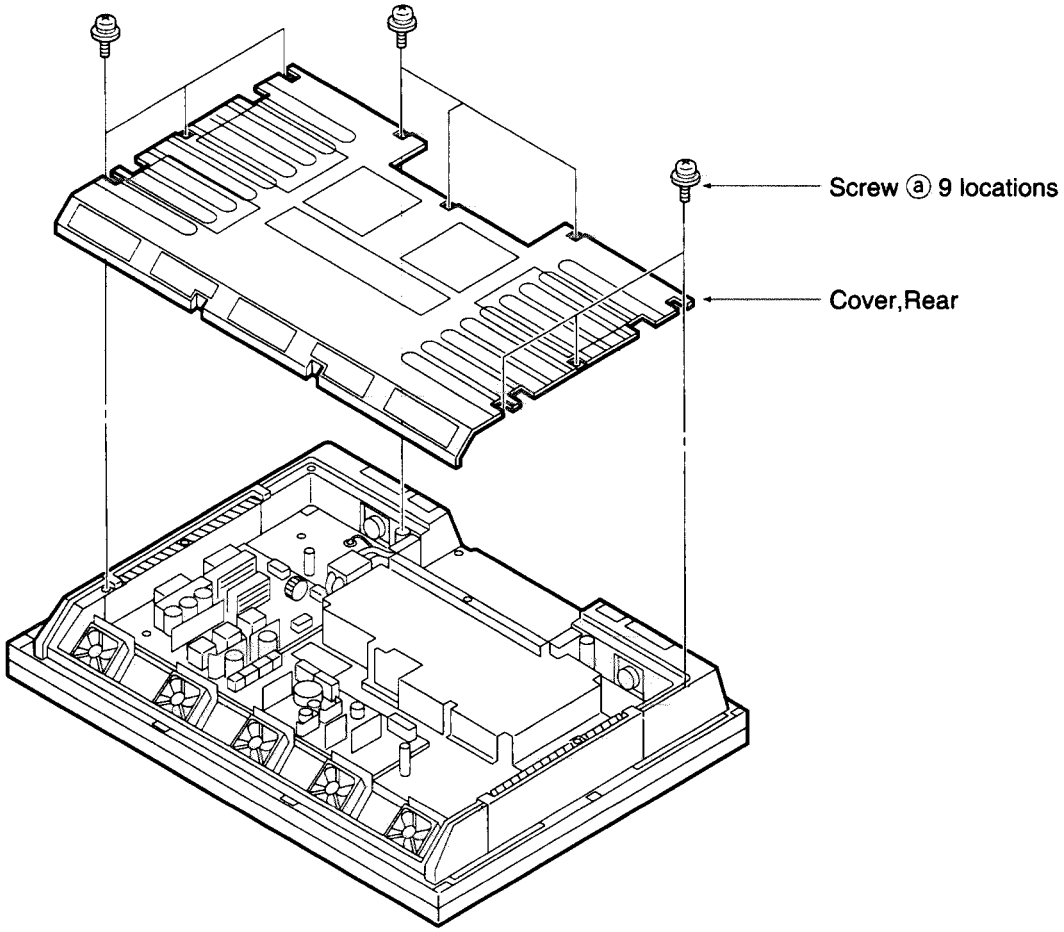
DISASSEMBLY

1. Removing the Main Components

1.1 Removing the Rear Cover

Ⓐ Remove screws ⓐ at nine locations.

Ⓑ Remove the rear cover.



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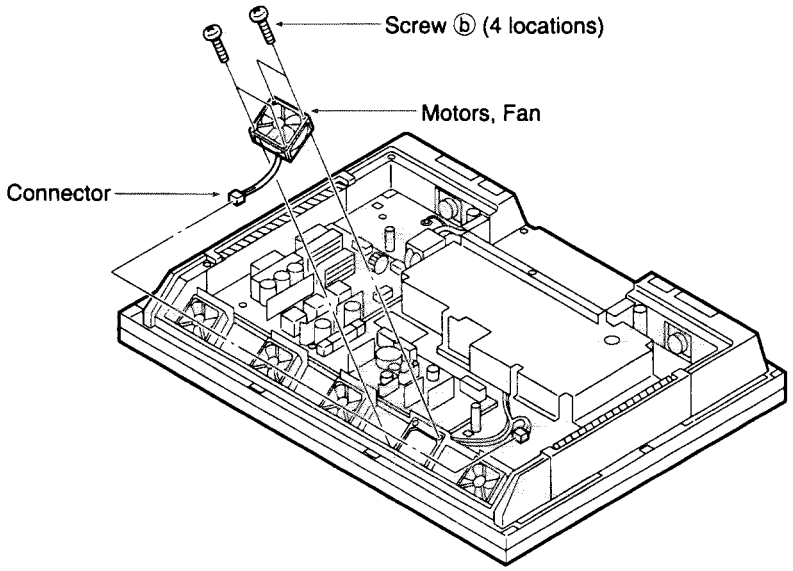
1.2 Removing the Fan Motors

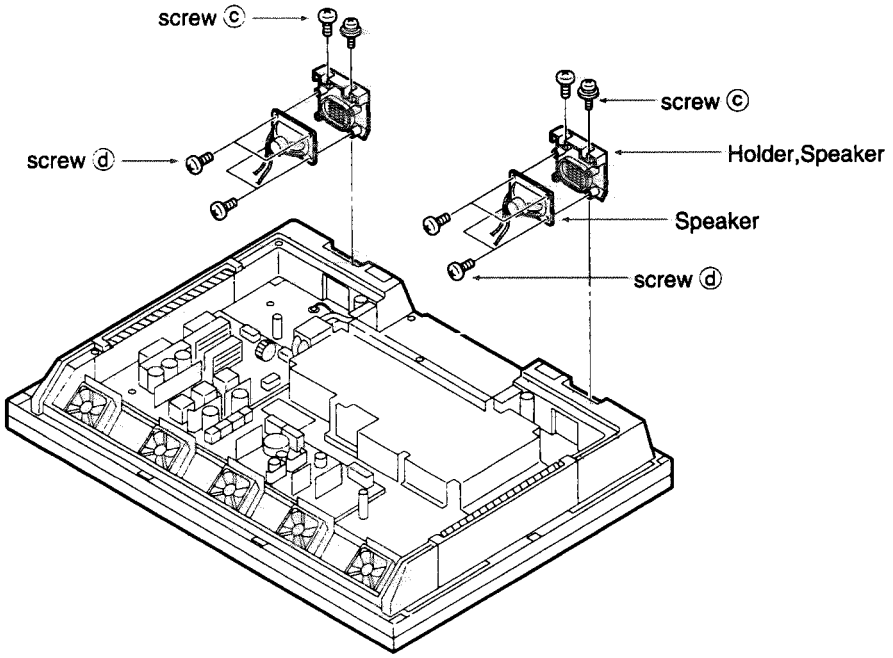
* Same procedure for all five motors.

Ⓐ Remove the rear cover (removing instruction on a separate page).
Ⓑ Remove screws ⓑ at four locations (per motor).
Ⓒ Disconnect the connector.
Ⓓ Remove the fan motor.



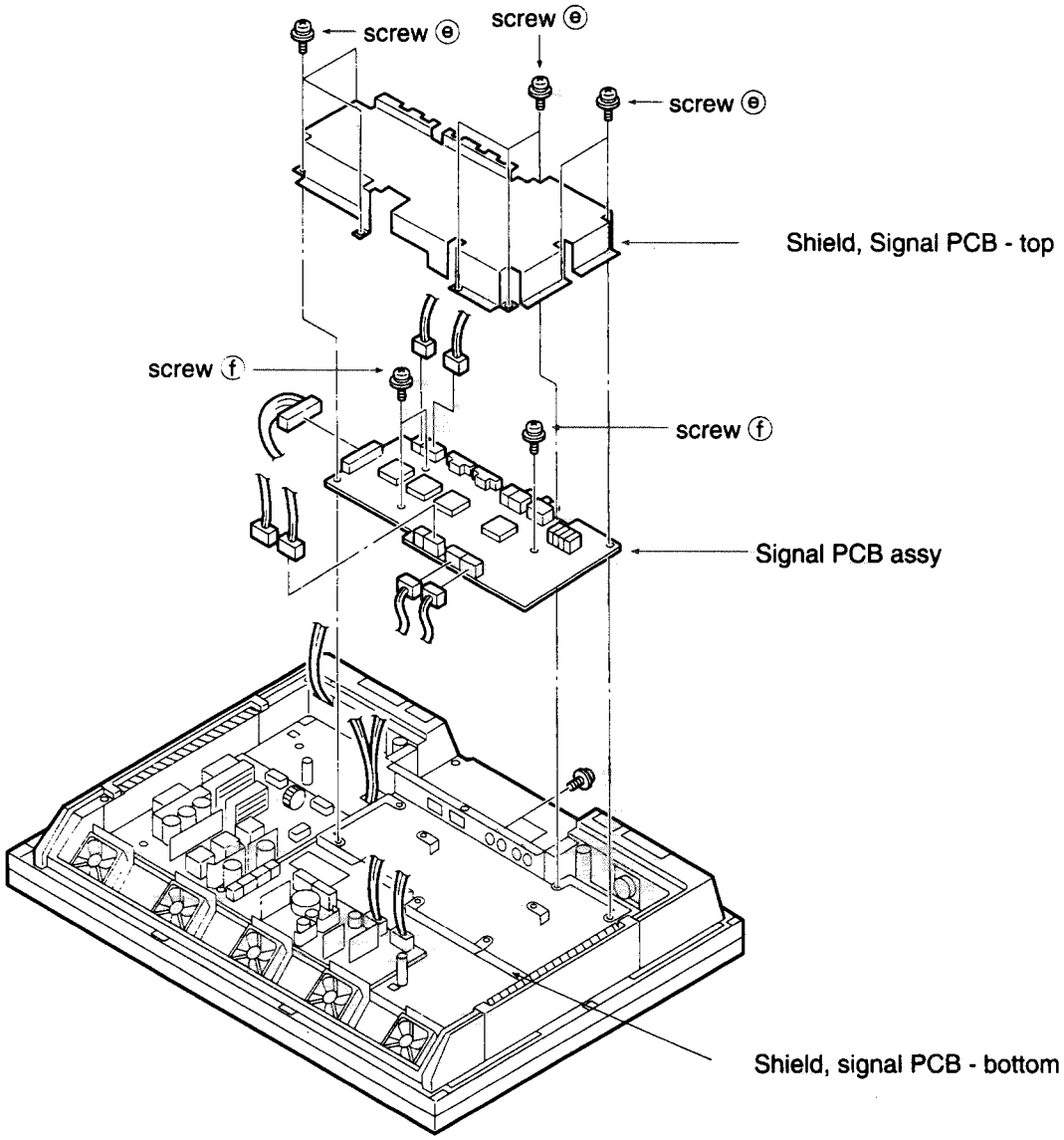
2. Removing the Speaker

Ⓐ Remove the rear cover (removing instruction on a separate page).
Ⓑ Remove screws ⓒ at four locations.
Ⓒ Remove screws ⓓ at four locations.
Ⓓ Remove the speaker.



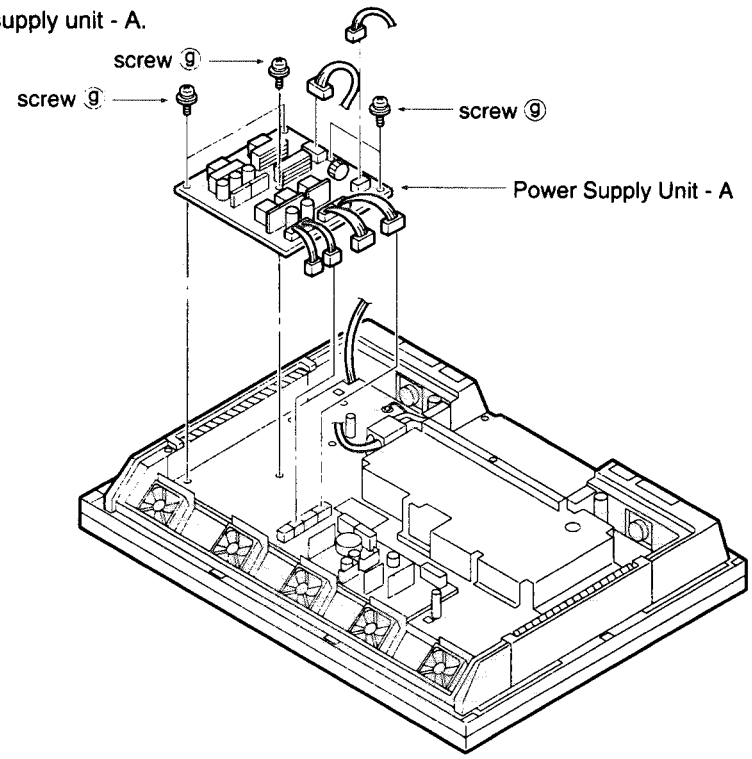
3. Removing the Signal PCB Assembly

Ⓐ Remove the rear cover (removing instruction on a separate page).
Ⓑ Remove screws ⓔ at eight locations.
Ⓒ Remove the signal PCB top shield.
Ⓓ Remove screws ⓕ at three locations.
Ⓔ Disconnect the seven connectors.
Ⓕ Remove the signal PCB assembly.



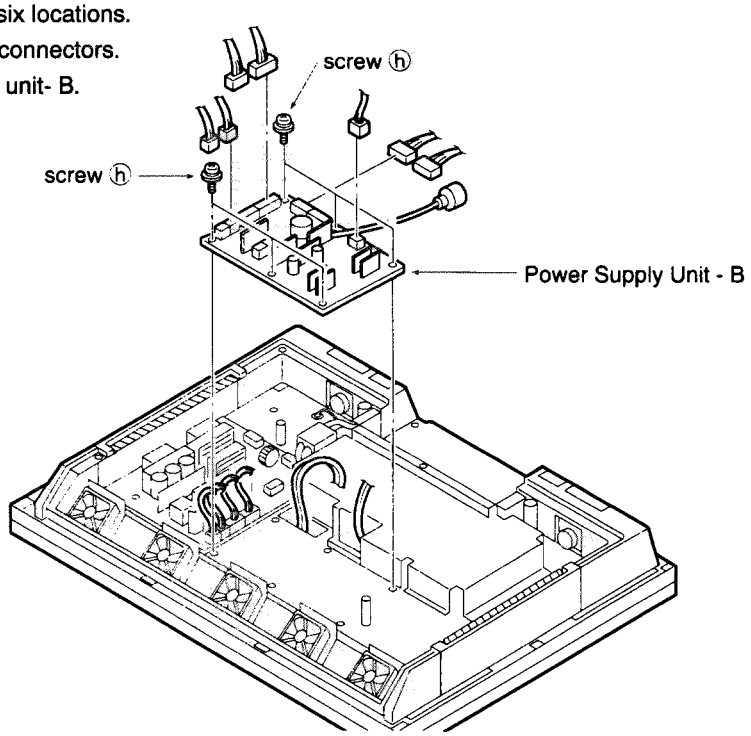
4. Removing the Power Supply Unit - A

Ⓐ Remove the rear cover (removing instruction on a separate page).
Ⓑ Remove screws ⓖ at five locations.
Ⓒ Disconnect the six connectors.
Ⓓ Remove power supply unit - A.



5. Removing the Power Supply Unit - B

Ⓐ Remove the rear cover (removing instruction on a separate page).
Ⓑ Remove screws ⓗ at six locations.
Ⓒ Disconnect the seven connectors.
Ⓓ Remove power supply unit- B.



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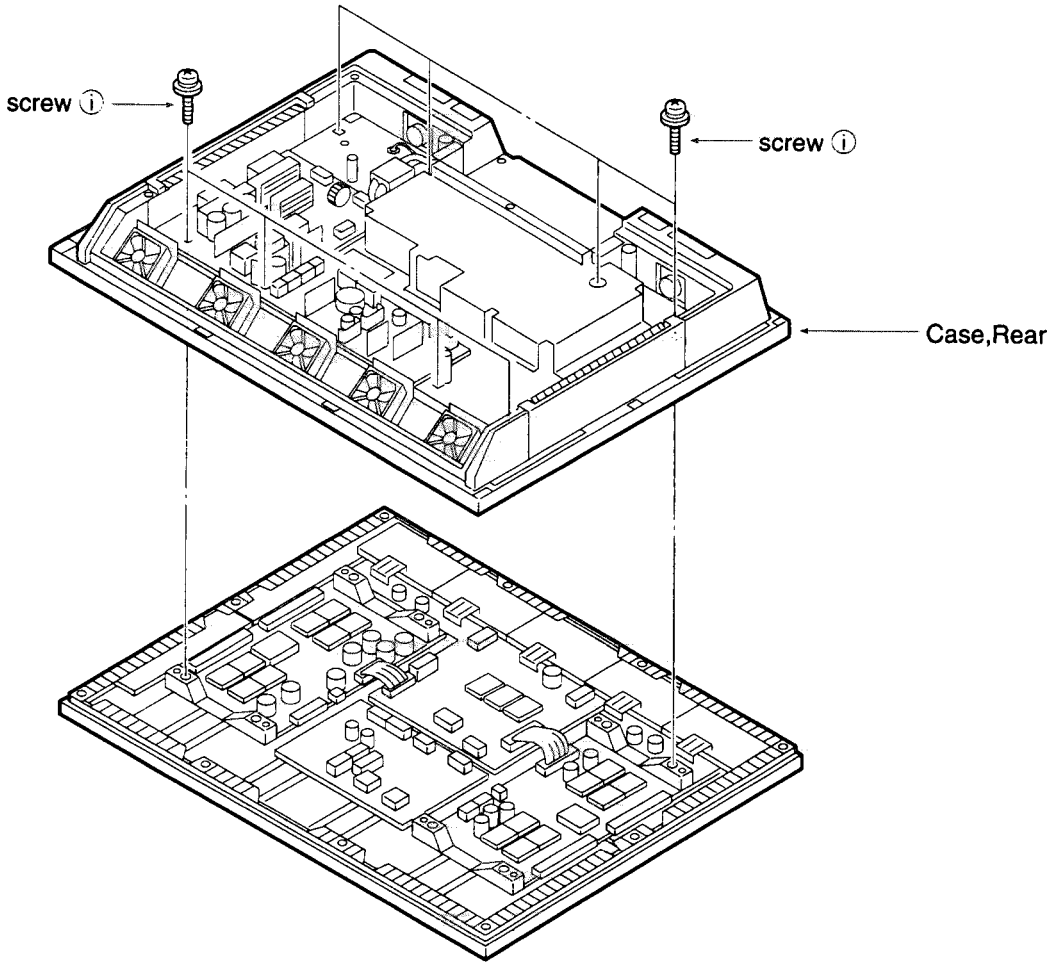
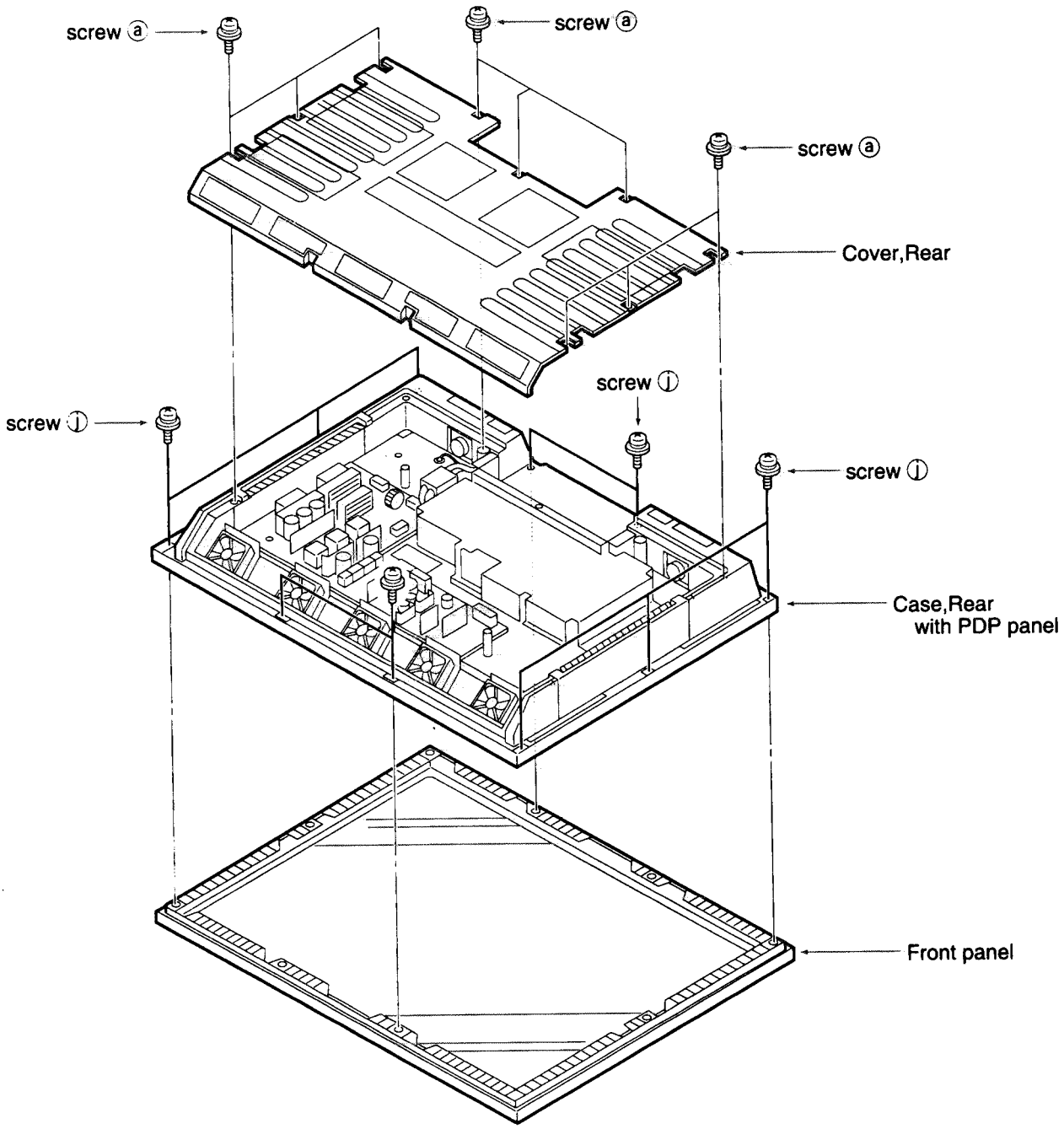
6. Removing the Case, Rear

Ⓐ Remove the rear cover (removing instruction on a separate page).
Ⓑ Remove screws ⓘ at eight locations.
Ⓒ Remove the rear case.



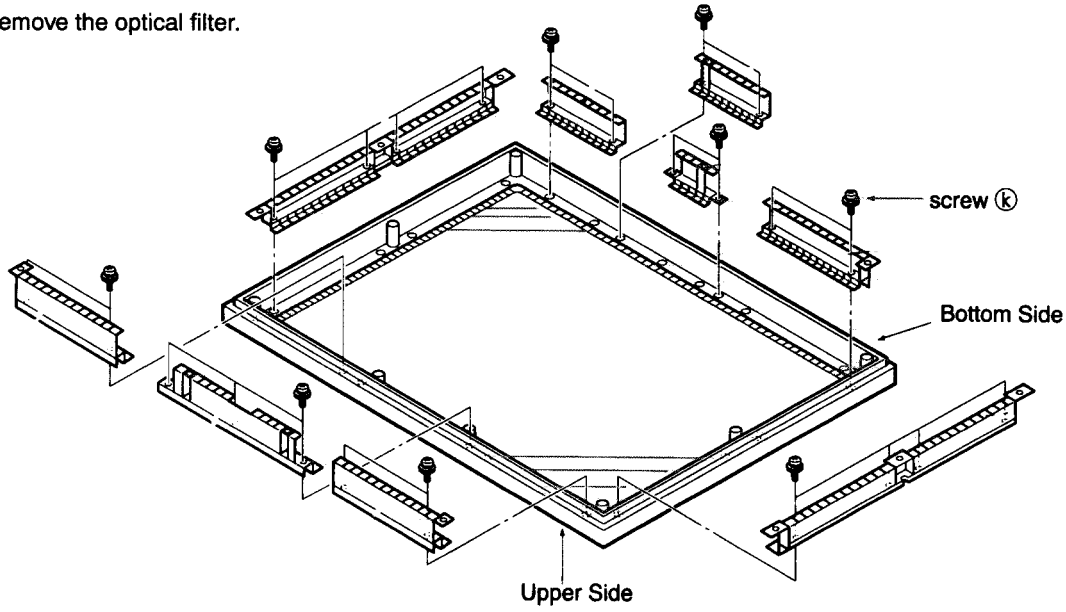
7. Removing the Front Panel

Ⓐ Remove screws ⓐ at nine locations.
Ⓑ Remove the rear cover.
Ⓒ Remove screws ⓙ at ten locations.
Ⓓ Remove the rear case.



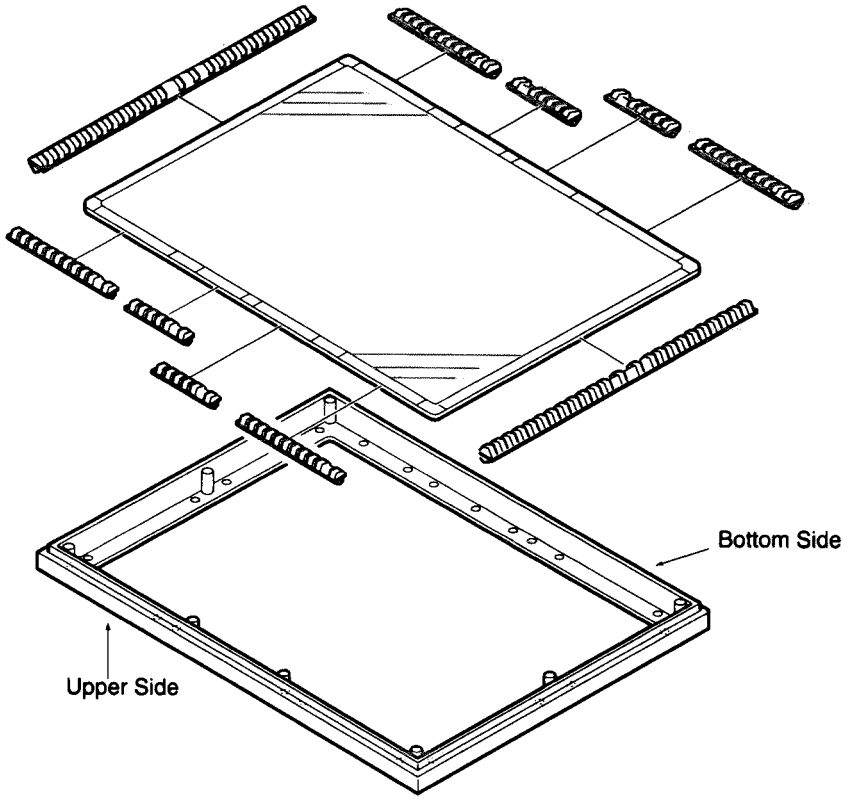
8. Removing the Optical Filter

Ⓐ To remove the Front Panel, see page 35.
Ⓑ Remove the 23 Screw ⓚ .
Ⓒ Remove the 9 Holder, Filters.
Ⓓ Remove the optical filter.

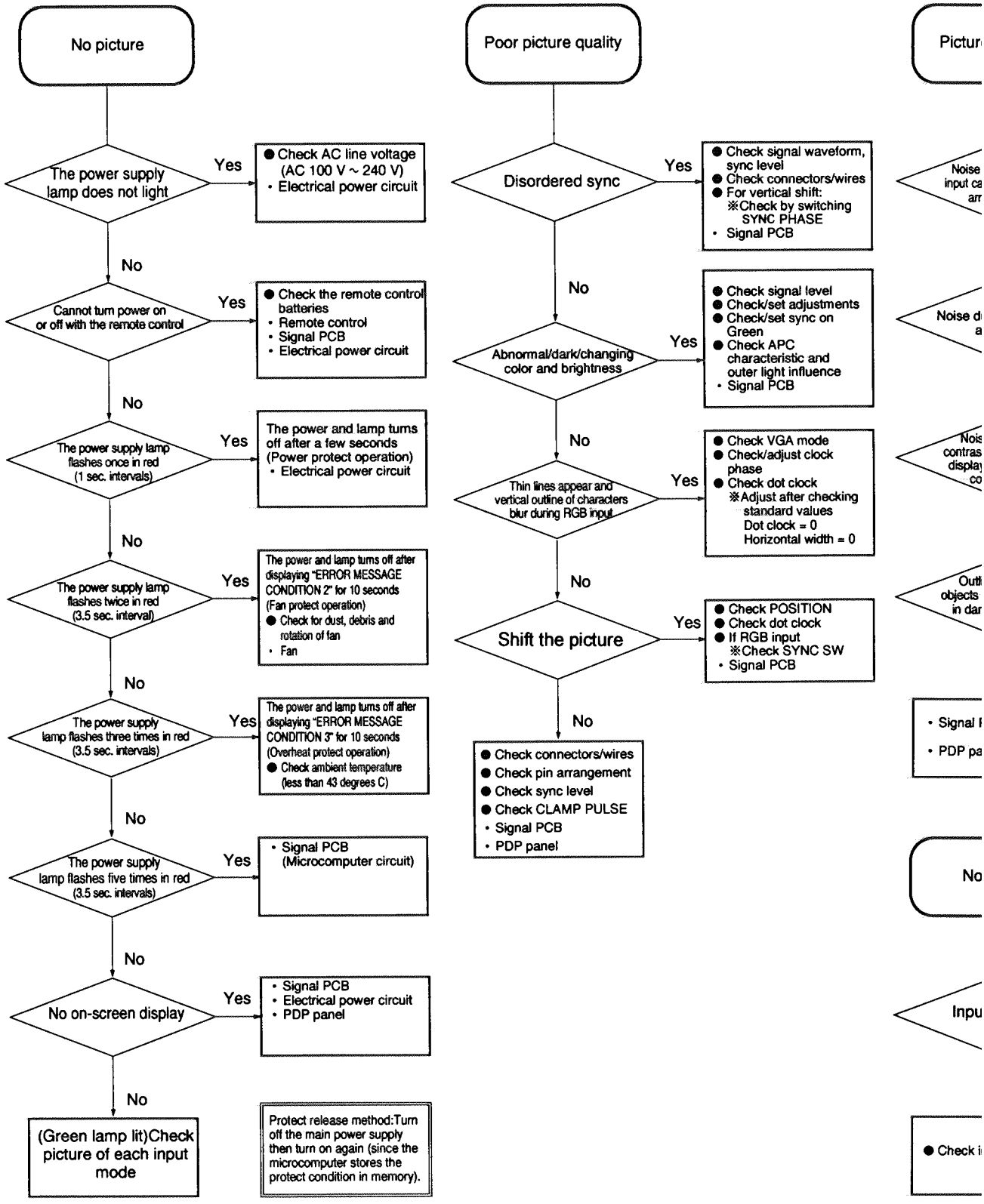


9. Operating the Optical Filter

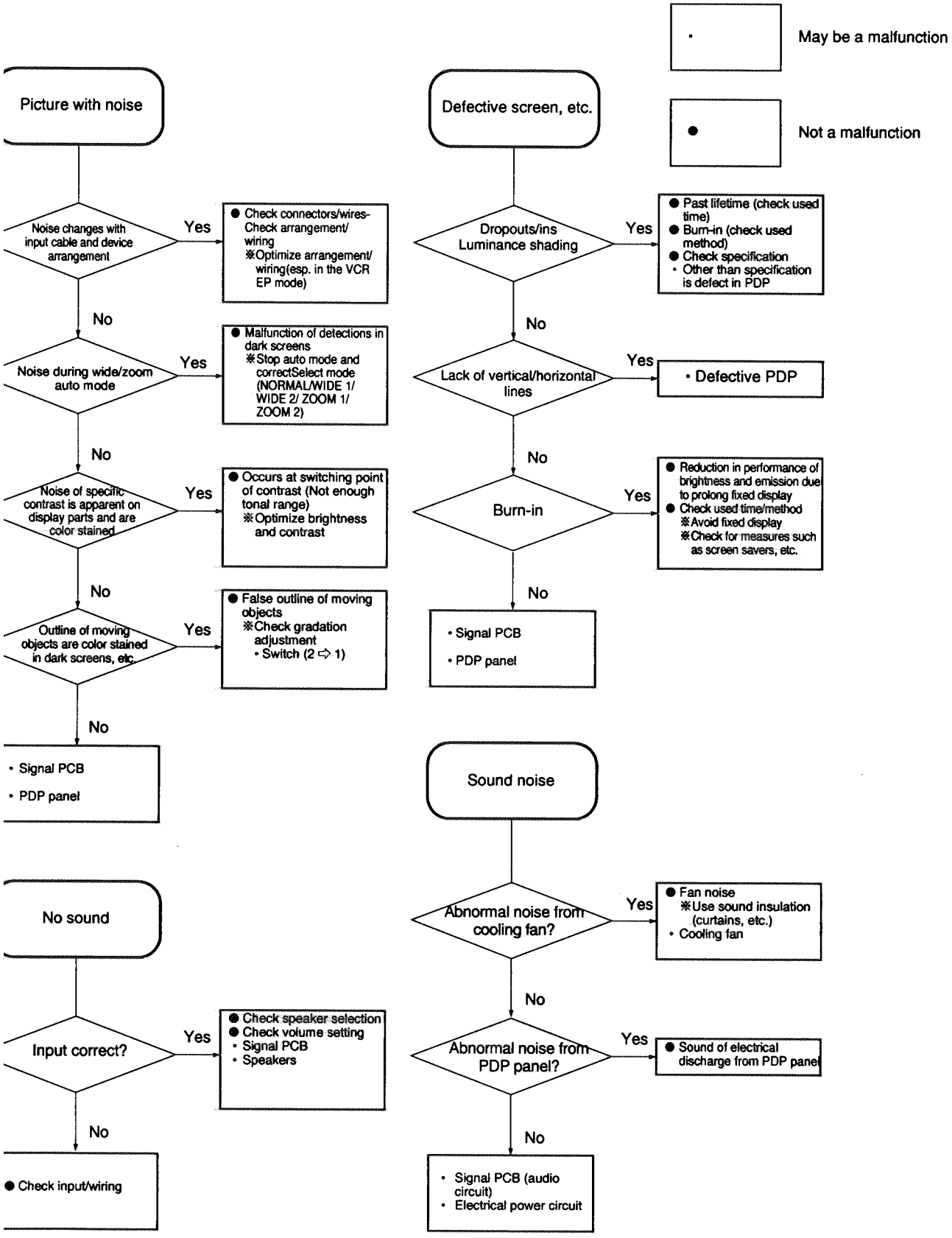
*To replace the Optical Filter, remove the 10 Contact Springs from the failed Optical Filter and attach them to the new Optical Filter.



GD-V425PZW FAULT AN


No picture
The power supply lamp does not light
Yes
● Check AC line voltage (AC 100 V ~ 240 V)
• Electrical power circuit
No
Cannot turn power on or off with the remote control
Yes
● Check the remote control batteries
• Remote control
• Signal PCB
• Electrical power circuit
No
The power supply lamp flashes once in red (1 sec. intervals)
Yes
The power and lamp turns off after a few seconds (Power protect operation)
• Electrical power circuit
No
The power supply lamp flashes twice in red (3.5 sec. interval)
Yes
The power and lamp turns off after displaying "ERROR MESSAGE CONDITION 2" for 10 seconds (Fan protect operation)
● Check for dust, debris and rotation of fan
• Fan
No
The power supply lamp flashes three times in red (3.5 sec. intervals)
Yes
The power and lamp turns off after displaying "ERROR MESSAGE CONDITION 3" for 10 seconds (Overheat protect operation)
● Check ambient temperature (less than 43 degrees C)
No
The power supply lamp flashes five times in red (3.5 sec. intervals)
Yes
• Signal PCB (Microcomputer circuit)
No
No on-screen display
Yes
• Signal PCB
• Electrical power circuit
• PDP panel
No
(Green lamp lit)Check picture of each input mode
Protect release method:Turn off the main power supply then turn on again (since the microcomputer stores the protect condition in memory).
Poor picture quality
Disordered sync
Yes
● Check signal waveform, sync level
● Check connectors/wires
● For vertical shift:
※Check by switching SYNC PHASE
• Signal PCB
No
Abnormal/dark/changing color and brightness
Yes
● Check signal level
● Check/set adjustments
● Check/set sync on Green
● Check APC characteristic and outer light influence
• Signal PCB
No
Thin lines appear and vertical outline of characters blur during RGB input
Yes
● Check VGA mode
● Check/adjust clock phase
● Check dot clock
※Adjust after checking standard values
Dot clock = 0
Horizontal width = 0
No
Shift the picture
Yes
● Check POSITION
● Check dot clock
● If RGB input
※Check SYNC SW
• Signal PCB
No
● Check connectors/wires
● Check pin arrangement
● Check sync level
● Check CLAMP PULSE
• Signal PCB
• PDP panel

ANALYSIS FLOWCHART



SELF CHECK FUNCTIONS

Monitor

1. Data Capture
   (1) LED display: recognition with main power supply on.
   (2) OSD (On Screen Display) display: recognition possible with power supply on.
2. Display Content and Status
   (1) LED display: see Table 2
   (2) OSD display: see Table 3

Error Types

1. Power supply voltage errors
   • Power supply PCB error
   • Signal processing PCB error
   • Panel error
2. Fan errors
   • Fan operation error (physical error, power supply error)
   • Signal processing PCB error (wiring, disconnection)
3. Ambient temperature error
   • Sensor error detection
   • Signal processing PCB error (disconnection)

Table 1 Error Causes and Displays

Type of Error	Error Data Capture Medium	
	LED	OSD
Power supply voltage	○	×
Ambient temperature	○	○
Fan speed	○	○

Table 2 Monitor LED Display

No.	LED Display		Cause	Operation
1	OFF		Main power supply OFF.	Microcomputer will not operate.
2	Red	Continuous	Main power supply ON. Power supply OFF.	Stand-by status.
3	Green	Continuous	Main power supply ON. Power supply ON.	Normal operation.
4	Red	on off 0.3-0.3s	Main power supply ON. Power supply ON. Voltage error (signal PCB only monitored).	Compulsory power OFF (instant). Remove error after main power supply is cut off. Turn power supply ON and monitor after 2 sec.
5		on off 0.5-0.5s	Main power supply on. Unit ambient temperature error (44±1).	Compulsory power OFF. Store error to memory. Error cancel after main power supply is OFF. However, there shall be no error at re-start.
6		on off 1.0-1.0s	Main power supply ON. Power supply ON. Fan speed error (rated value +/-15%).	Compulsory power OFF. Store error to memory. Error cancel after main power supply OFF. Turn power supply ON and monitor after 10 sec.
7	Orange	on off 0.5-0.5s	Main power supply ON. Microcomputer error.	Remove error after main power supply is OFF.

Table 3 Monitor OSD Display

No.		OSD Display	Operation
1	Fan speed error.	ERROR MESSAGE CONDITION 1 FEHLANZEIGE BEDINGUNGEN 1 MESSAGE ERREUR CONDITION 1 MENSAJE DE ERROR CONDICION 1	(Fatal error) Power supply OFF after 10 sec. message display on screen. LED error display continues after power supply is OFF.
2	Ambient temper-ature error	ERROR MESSAGE CONDITION 2 FEHLANZEIGE BEDINGUNGEN 2 MESSAGE ERREUR CONDITION 2 MENSAJE DE ERROR CONDICION 2	(Fatal error) Power supply OFF after 10 sec. message display on screen. LED error display continues after power supply is OFF.

*Error messages starting from the top are in English, German, French and Spanish.

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INSTALLATION PRECAUTIONS

Please Note!

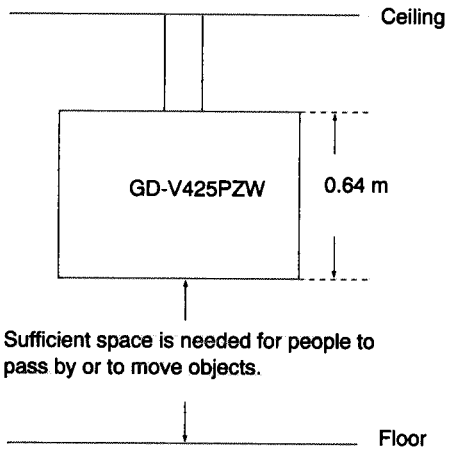
- When installing the display unit, be sure to use the specially designed accessory wall hangers or ceiling hangers (optional) as required.

1. Installation Environment

1) Do not expose the display directly to vapor or heat. Protect the unit from rain or water.
2) The display uses glass material, and it cracks easily. So, do not apply any vibration and shock to this display. When carrying the display, always do by two peoples so that the vibration and shock is not applied to the display.
3) Do not disturb the radiate of heat from the rear, side and top of the unit. Install the unit in the place where is well ventilated. Use the unit within an ambient temperature range of 0°C-40°C.
4) Displaying the static picture continuously for a long time may cause after-image as well as CRT. To keep unit life for prolonged length of time, take measures such as the display to turn off at an unneccessary time, scroll of the picture and application of screen saver. Display periodically so that the whole screen becomes uniform with brightness inversion, to additive complimentary colors and insertion of moving pictures. Use a half tone and an intermediate color, if possible, as the higher brightness becomes the easier the burning occurs. Further, there is not worried about moving pictures.
5) Do not expose the optical filter directly to the sun for a long time. If so, the characteristic of the optical filter is changed, and there is some fear of discoloration.
6) Do not wipe the optical filter with a solvent such as benzine, and thinner. If so, the optical filter may peel off. Wipe the surface of the optical filter with a fluffy-less and soft cloth (e.g. cotton flannel). The surface of the optical filter is easily to be scratched, so do not rub or hit it with a hard thing.
7) The display is want of brightness and contrast compared with a CRT yet. In addition, as the screen becomes whitish by effect of the peripheral environmental light and it is difficult to see the screen, great care should be taken for the effect of the outdoor light. Therefore, it is recommended darken the peripheral environmental light slightly.
8) Take care that the light from the back may have an effect on the screen. So, avoid the light from the back where possible.
9) The display may cause radio wave interference to sensors which detect faint and low frequency radio wave. When the VTR and signal cable shielded incompletely is brought close to the display, it may catch noise. To avoid catching noise, change the location or move it away for measures.
10) Near infrared rays come from the front of the display panel. As a result, an infrared ray remote control unit of other equipment and infrared communication system may be caused interference. At a time like this, change the directions of the equipment against the screen, move further away so that the direct rays (or reflected rays depending on the situation) from the screen have no effect on the other equipment.
11) When the display is installed in a quiet room, it is recommended a thick curtain to be arranged on the wall of the rear side to reduce the noise of funs.

2. Cautions for Installation

1) The support must withstand the weight of the unit.
   The standards of the country must be met.
2) Special care should be taken in areas with frequent earthquakes.
   When an earthquake occurs, gravity forces may be added in any direction.
   (At a magnitude of six, each pipe must withstand a load of 100-150 kg.)
3) Grounding should be performed.
   (Ground connected to power outlet is acceptable.)

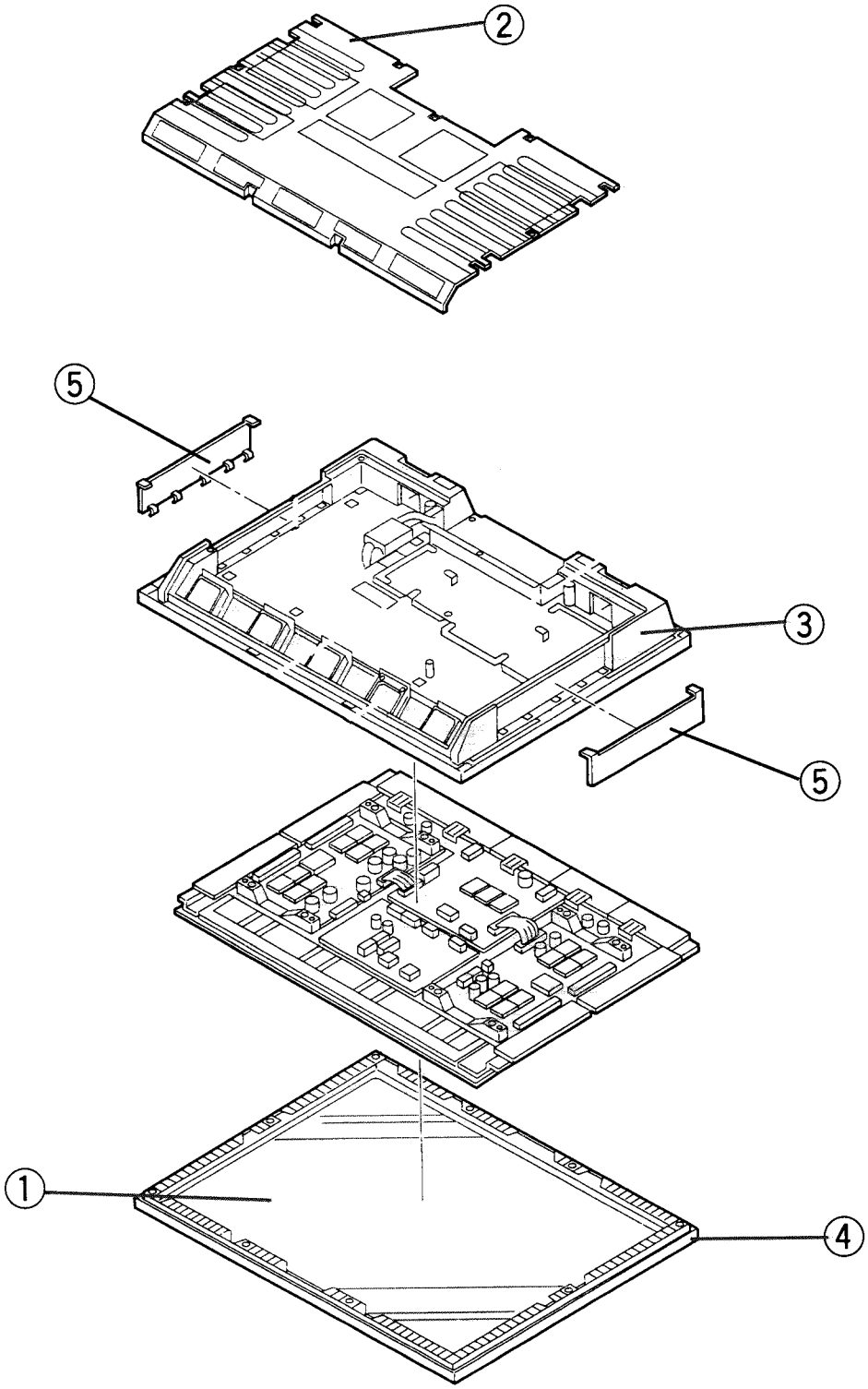


4) Installation should be done by at least two people. A simple lifter should be used.
5) When carrying the unit unpacked, do not hold the Optical Filter.

3. Standard setting-up positions

Refer to the Instructions Manual (page 6-9) for detail.

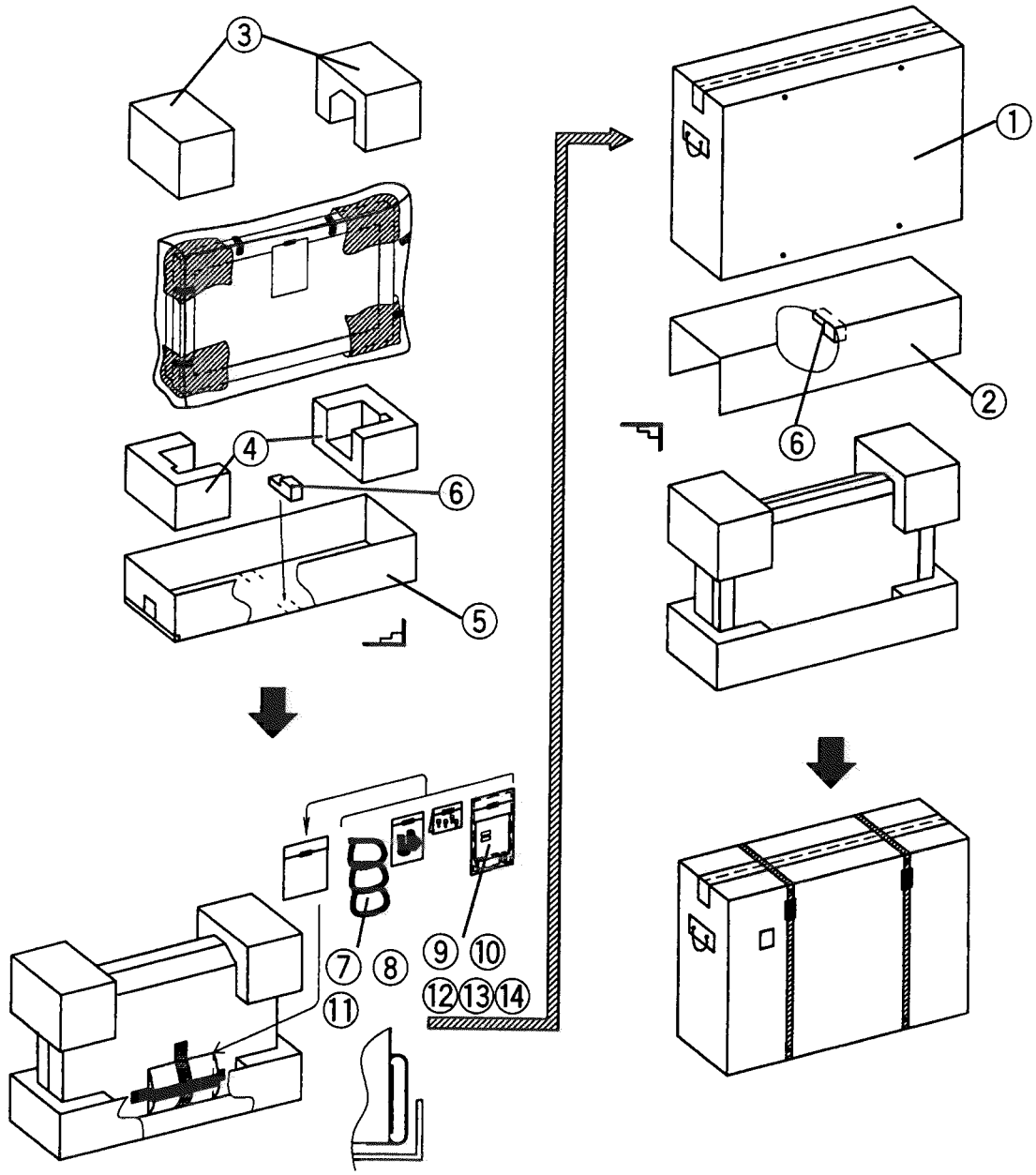
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

⚠ Ref. No.	Part No.	Part Name.	Description	Local
1	8105046060	OPTICAL FILTER		
2	8107415000	REAR COVER		
3	8104698000	REAR CASE		
4	8107413006	FRONT CASE		
5	8105653008	SIDE COVER		
	8107268002	SIDE HOLDER		
	8900182017	MOTOR FAN		
	8107426006	CUSHION MESH 4203		

PACKING



PACKING PARTS LIST

⚠	Ref. No.	Part No.	Part Name.	Description	Local
	1	8107417004	CARTON BOX(TOP)		
	2	8106740004	INNER PAD		
	3	8107040004	CUSHION(TOP)		
	4	8107041001	CUSHION(BOTTOM)		
	5	8106739008	CARTON BOX(BOTTOM)		
	6	8107042008	CUSHION(CENTER)		
⚠	7	8105866002	POWER CORD(EU TYPE)		
⚠	8	8105865005	POWER CORD(US TYPE)		
	9	8105451031	REMOTE CONTROL UNIT		
⚠	10	8106628012	INSTRUCTION BOOK		
⚠	11	8106228007	POWER CORD(AU TYPE)		
	12	0600277062	CORE		
	13	8107465012	INST SHEET		
	14	0600174019	CLAMP		

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